

## JOURNALS FROM WHICH ABSTRACTS ARE MADE.

The following is a list of the principal Journals from which abstracts are made (directly or indirectly) by the Bureau of Chemical Abstracts. Further information regarding any of these Journals may be obtained from the Secretary of the Bureau.

ABBREVIATED TITLE.	JOURNAL.	ABBREVIATED TITLE.	JOURNAL.
Abh. Böhm. Akad. .	Abhandlungen der Böhmischen Akademie.	Ann. Falsif. . .	Annales des Falsifications.
Acta Bot. Fennica .	Acta Botanica Fennica.	Ann. Ferm. . .	Annales des Fermentations.
Acta brev. neerl. .	Acta Brevia Neerlandica de Physiologia,	Ann. Guébbard-Séverine	Annales Guébbard-Séverine.
Physiol. . .	Pharmacologia, Microbiologia, e.a.		
Acta Physicochim. U.R.S.S.	Acta Physicochimica U.R.S.S.	Ann. Inst. Anal. Phys. Chim.	Annales de l'Institut d'Analyse Physico-chimique.
Acta Phytochim. .	Acta Phytochimica.	Ann. Inst. Pasteur .	Annales de l'Institut Pasteur.
Acta Sci. Fennicae .	Acta Societatis Scientiarum Fennicae.	Ann. Inst. Platine .	<i>Title changed to Ann. Sect. Platine.</i>
Agric. Eng. . .	Agricultural Engineering.	Ann. Mines . .	Annales des Mines (Paris).
Agric. Gaz. New South Wales	Agricultural Gazette of New South Wales.	Ann. Mines Belg. .	Annales des Mines de Belgique.
Agric. J. Brit. Guiana	Agricultural Journal of British Guiana.	Ann. Off. nat. Comb. liq.	Annales de l'Office nationale des Combustibles liquides.
Agric. Live-stock India	Agriculture and Live-stock in India.	Ann. Physik . .	Annalen der Physik.
Agric. Progr. . .	Agricultural Progress.	Ann. Physique . .	Annales de Physique.
Agric. Res. Inst., Pusa, Rep. (Bull.)	Agricultural Research Institute, Pusa, Reports and Bulletins.	Ann. R. Staz. Chim. Agrar. Sperim.	Annali della R. Stazione Chimico Agraria Sperimentale di Roma.
Aircraft Eng. . .	Aircraft Engineering.	Ann. Sect. Platine .	Annales du Secteur Platine et des autres Métaux Précieux.
Allgem. Oel- Fett-Ztg.	Allgemeine Oel- und Fett-Zeitung.	Ann. Sci. . .	Annals of Science.
Allgem. Z. Bierbrau. .	Allgemeine Zeitschrift für Bierbrauerei und Malzfabrikation.	Ann. Soc. Sci. Bruxelles	Annales de la Société Scientifique de Bruxelles.
Alluminio . .	Alluminio (Milan).	Ann. Sperim. Agrar. .	Annali della Sperimentazione Agraria.
Aluminium . .	Aluminium.	Ann. sci. Univ. Jassy.	Annales scientifiques de l'Université de Jassy.
Amer. Dyestuff Rep.	American Dyestuff Reporter.	Apoth.-Ztg. . .	Deutsche Apotheker-Zeitung.
Amer. Fort. . .	American Fertiliser.	Arb. Biol. Reichanst. Land- u. Forst-wirts.	Arbeiten der Biologischen Reichsanstalt für Land- und Forstwirtschaft.
Amer. Gas Assoc. Month.	American Gas Association Monthly.	Arbeitsphysiol. .	Arbeitsphysiologie.
Amer. Gas J. . .	American Gas Journal.	Arch. Biol. . .	Archives de Biologie.
Amer. Inst. Min. Met. Eng. Publ.	American Institute of Mining and Metallurgical Engineers Publication.	Arch. Eisenhüttenw. .	Archiv. für das Eisenhüttenwesen.
Amer. J. Bot. . .	American Journal of Botany.	Arch. exp. Path. Pharm.	Archiv für experimentelle Pathologie Pharmakologie.
Amer. J. Dis. Children	American Journal of Diseases of Children.	Arch. Farm. sperim.	Archivio di Farmacologia sperimentale e Scienze affini.
Amer. J. Pharm. .	American Journal of Pharmacy.	Arch. fisiol. . .	Archivio di Fisiologia.
Amer. J. Physiol. .	American Journal of Physiology.	Arch. Gewerbepath. .	Archiv für Gewerbepathologie und Gewerbehygiene.
Amer. J. Publ. Health	American Journal of Public Health and the Nation's Health.	Arch. Hyg. Bakt. .	Archiv der Hygiene und Bakteriologie.
Amer. J. Sci. . .	American Journal of Science.	Arch. Int. Med. .	Archives of Internal Medicine.
Amer. Min. . .	American Mineralogist.	Arch. int. Physiol. .	Archives internationales de Physiologie.
Amer. Ink Maker .	American Ink Maker.	Arch. Ist. Biochim. Ital.	Archivio dello Istituto Biochimico Italiano.
Amer. Paint J. .	American Paint Journal.	Arch. Mikrobiol. .	Archiv für Mikrobiologie.
Amer. Potato J. .	American Potato Journal.	Arch. Min. Soc. Sci. Varsovie	Archives de Minéralogie de la Société des Sciences de Varsovie (Archivum Mineralogiczne Towarzystwa Naukowego Warszawskiego).
Anal. Asoc. Quím. Argentina	Anales de la Asociación Química Argentina.	Arch. Néerland. .	Archives Néerlandaises de sciences exactes et naturelles.
Anal. Fís. Quím. .	Anales de la Sociedad Española de Física y Química.	Arch. Néerland. Physiol.	Archives Néerlandaises de Physiologie de l'Homme et des Animaux.
Anal. Inst. invest. cient. tecn.	Anales del Instituto de investigaciones científicas y tecnológicas.	Arch. Pflanzenbau .	Archiv für Pflanzenbau.
Analyst . . .	Analyst.	Arch. Pharm. . .	Archiv der Pharmazie.
Anat. Rec. . .	Anatomical Record.	Arch. Protistenk. .	Archiv für Protistenkunde.
Angew. Bot. . .	Angewandte Botanik.	Arch. Sci. phys. nat. .	Archives des Sciences physiques et naturelles.
Angew. Chem. . .	Angewandte Chemie (changed from Z. angew. Chem. in 1932).	Arch. Suikerind. Ned.-Indië . .	Archief voor de Suikerindustrie in Nederland-Indië.
Anilinokras. Prom. .	Anilinokrasotschnaja Promischlennosti.	Arch. tech. Mess. .	Archiv für technisches Messen.
Ann. Acad. Brasil. Sci.	Annals da Academia Brasileira de Ciencias.	Arch. Tierernährung u. Tierzucht	Archiv für Tierernährung und Tierzucht.
Ann. Acad. Sci. Fennicae	Annales Academiæ Scientiarum Fennicae.	Arch. Wärmewirts. .	Archiv für Wärmewirtschaft.
Annalen . . .	Justus Liebig's Annalen der Chemie.	Arh. Hemiju . .	Arhiv za Hemiju i Farmaciju.
Ann. agron. . .	Annales agronomique.		
Ann. Appl. Biol. .	Annals of Applied Biology.		
Ann. Bot. . .	Annals of Botany.		
Ann. di Bot. . .	Annali di Botanica.		
Annali Chim. Appl. .	Annali di Chimica Applicata.		
Ann. Chim. . .	Annales de Chimie.		
Ann. Chim. Analyt. .	Annales de Chimie Analytique et de Chimie Appliquée.		

ABBREVIATED TITLE.	JOURNAL.
Arizona Agric. Exp. Sta. Bull.	Arizona Agricultural Experiment Station Bulletin.
Arkiv Kemi, Min., Geol.	Arkiv för Kemi, Mineralogi och Geologi.
Arts et Mét.	Arts et Métiers.
Arxius	Arxius de l'Escola Superior d'Agricultura, Catalunya.
Astrophys. J.	Astrophysics Journal.
Atti R. Accad. Lincei	Atti della Reale Accademia Nazionale dei Lincei.
Atti R. Accad. Sci. Torino	Atti della Reale Accademia delle Scienze di Torino.
Austral. J. Exp. Biol.	Australian Journal of Experimental Biology and Medicine.
Austral. J. Pharm.	Australasian Journal of Pharmacy.
Auto. Eng.	Automobile Engineer.
B.P.	British Patent.
Ber.	Berichte der deutschen chemischen Gesellschaft.
Ber. deut. bot. Ges.	Berichte der deutschen botanischen Gesellschaft.
Ber. deut. Keram. Ges.	Berichte der Deutschen Keramischen Gesellschaft.
Ber. Ges. Kohlentechn.	Berichte der Gesellschaft für Kohlentechnik.
Berg- u. Hüttenm. Jahrb.	Berg- und Hüttenmännisches Jahrbuch der montanistischen Hochschule in Loeben.
Bergbau	Bergbau.
Ber. Ohara Inst. landw. Forsch.	Berichte des Ohara Instituts für landwirtschaftliche Forschungen.
Ber. Sächs. Akad. Wiss.	Berichte über die Verhandlungen der Sächsischen Akademie der Wissenschaften zu Leipzig.
Ber. Ukrain. Wiss. Forsch. physikal. Chem.	Berichte des Ukrainischen Wissenschaftlichen Forschungsinstituts für physikalische Chemie.
Berlin. klin. Woch.	Berliner klinische Wochenschrift.
Bied. Zentr.	Biedermann's Zentralblatt.
Bied. Zentr. (Tierernähr.)	Biedermann's Zentralblatt (Tierernährung).
Biochem. J.	Biochemical Journal.
Biochem. Z.	Biochemische Zeitschrift.
Biochimia	Biochimia.
Blast Fur. Steel Plant	Blast Furnace and Steel Plant.
Board Greenkeeping Res. J.	Board of Greenkeeping Research Journal.
Bodenk. Pflanzenernähr.	Bodenkunde und Pflanzenernährung.
Bol. Acad. Nac. Ciencias, Cordoba	Boletín de la Academia Nacional des Ciencias, Cordoba.
Bol. Soc. Quim. Peru	Boletín de la Sociedad Química del Peru.
Boll. Chim. farm.	Bollettino Chimico-Farmaceutico.
Boll. Sez. Ital.	Bollettino della Sezione Italiana.
Boll. Soc. Geol. Ital.	Bollettino della Società Geologica Italiana.
Boll. Soc. Ital. Biol. sperim.	Bollettino della Società Italiana di Biologia sperimentale.
Boll. Soc. Med. Chirurg.	Bollettino della Società Medico-Chirurgica, Pavia.
Boll. Staz. Sperim. Ind. Carta Fibre Tess.	Bollettino del Reparto Fibre Tessili Vegetali della R. Stazione Sperimentale per l'Industria della Carta e delle Fibre Tessili Vegetali.
Boll. Uff. Staz. Sperim. Ind. Essenze	Bollettino Ufficiale della R. Stazione Sperimentale per l'Industria delle Essenze o dei Derivati dagli Agrumi in Reggio Calabria.
Boll. Uff. Staz. Sperim. Ind. Pelli	R. Stazione Sperimentale per l'Industria delle Pelli e delle materie concianti, Bollettino Ufficiale.
Bot. Archiv	Botanisches Archiv.
Bot. Gaz.	Botanical Gazette.
Brass. Malt.	Brasserie et Malterie.
Brau- u. Malzind.	Brau- n. Malzindustrie.
Braunkohle.	Braunkohle.
Braunkohlenarchiv	Braunkohlenarchiv.
Brennstoff-Chem.	Brennstoff-Chemie.
Brennstoff u. Wärmewirts.	Brennstoff und Wärmewirtschaft.

ABBREVIATED TITLE.	JOURNAL.
Brewers' J.	Brewers' Journal.
Brit. Dental J.	British Dental Journal.
Brit. Guiana Dept. Agric. Bull.	British Guiana Department of Agriculture Bulletin.
Brit. J. Exp. Path.	British Journal of Experimental Pathology.
Brit. J. Phot.	British Journal of Photography.
Brit. J. Phys. Med.	British Journal of Physical Medicine.
Brit. Med. J.	British Medical Journal.
Brit. Plastics	British Plastics and Moulded Products Trader.
Bul. Chim.	Buletinul Chimie.
Bul. Chim. Soc. Române	Buletinul de Chimie pura si aplicata al Societatii Române de Chimie.
Bul. Soc. Chim. România	Buletinul Societatii de Chimie din România.
Bul. Soc. Fiz. România	Buletinul Bilunar al Societatii de Fizică din România.
Bul. Soc. Române Stiin.	Buletinul Societatii Române de Stiinte.
Bull. Acad. Méd. Roumanie	Bulletin de l'Académie de Médecine de Roumanie.
Bull. Acad. Polonaise	Bulletin Internationale de l'Académie Polonaise des Sciences et des Lettres.
Bull. Acad. roy. Belg.	Académie royale de Belgique—Bulletin de la Classe des Sciences.
Bull. Acad. Sci. Agra & Oudh	Bulletin of the Academy of Sciences of Agra and Oudh.
Bull. Acad. Sci. U R.S.S.	Bulletin de l'Académie des Sciences de l'Union des Républiques Soviétiques Socialistes.
Bull. Acad. Sci. Roumaine	Bulletin de la Section Scientifique de l'Académie Roumaine.
Bull. Agric. Chem. Soc. Japan	Bulletin of the Agricultural Chemical Society of Japan.
Bull. Agric. Soc. Egypt	Bulletin of the Agricultural Society of Egypt.
Bull. Amer. Ceram. Soc.	Bulletin of the American Ceramic Society.
Bull. Assoc. Chim. Suer.	Bulletin de l'Association des Chimistes de Sucrierie et de Distillerie.
Bull. Assoc. tech. Fond.	Bulletin de l'Association technique de Fonderie.
Bull. Biol. Méd. exp. U.R.S.S.	Bulletin de Biologie et Médecine expérimentale de l'U.R.S.S.
Bull. Chem. Soc. Japan	Bulletin of the Chemical Society of Japan.
Bull. Dept. Agric. Kenya	Bulletin of the Department of Agriculture of Kenya.
Bull. Dept. Agric. S. Africa.	Bulletin of the Department of Agriculture of South Africa.
Bull. Entomol. Res.	Bulletin of Entomological Research.
Bull. Forest Exp. Stat. Meguro	Bulletin of the Forest Experiment Station, Meguro, Tokyo.
Bull. Imp. Inst.	Bulletin of the Imperial Institute.
Bull. Inst. Metchnikoff	Bulletin de l'Institut Metchnikoff.
Bull. Inst. Min. Met.	Bulletin of the Institution of Mining and Metallurgy.
Bull. Inst. Phys. Chem. Res. Japan	Bulletin of the Institute of Physical and Chemical Research, Japan (Rikagaku Kenkyujo Ihô).
Bull. Inst. Pin	Bulletin de l'Institut du Pin.
Bull. Johns Hopkins Hosp.	Bulletin of the Johns Hopkins Hospital.
Bull. Math. Phys. Bucarest	Bulletin de Mathématiques et de Physique pure et appliquées de l'Ecole Polytechnique "Roi Carol II" Bucarest.
Bull. Mat. Grasses	Bulletin des Matières Grasses.
Bull. Photogrammétr.	Bulletin de Photogrammétrie.
Bull. Rubber Growers' Assoc.	Bulletin of the Rubber Growers' Association.
Bull. School Mines and Met., Univ. Missouri	Bulletin of the School of Mines and Metallurgy, University of Missouri.
Bull. Sci. pharmacol.	Bulletin des Sciences Pharmacologiques.
Bull. Sericult. Japan	Bulletin of Sericulture and Silk Industry, Japan.
Bull. Soc. chim.	Bulletin de la Société chimique de France.

ABBREVIATED TITLE.	JOURNAL.
Bull. Soc. chim. Belg.	Bulletin de la Société chimique de Belgique.
Bull. Soc. Chim. biol.	Bulletin de la Société de Chimie biologique.
Bull. Soc. Chim. Yougoslav.	Bulletin de la Société Chimique du Royaume de Yougoslavie.
Bull. Soc. d'Encour.	Bulletin de la Société d'Encouragement pour l'Industrie Nationale.
Bull. Soc. Franç. Min.	Bulletin de la Société Française de Minéralogie.
Bull. Soc. Franç. Phot.	Bulletin de la Société Française de Photographie et de Cinématographie.
Bull. Soc. Ind. Mulhouse	Bulletin de la Société Industrielle de Mulhouse.
Bull. Soc. Sci. Hyg. aliment.	Bulletin de la Société Scientifique d'Hygiène alimentaire.
Bull. Union Res. Inst. Cement, U.S.S.R.	Bulletin of the Union Research Institute for Cement, U.S.S.R.
Bull. U.S. Geol. Survey Canada Dept. Mines Publ.	Bulletin of the U.S. Geological Survey. Canada Department of Mines Publications.
Canad. Dairy & Ice Cream J.	Canadian Dairy and Ice Cream Journal.
Canad. Chem.	Canadian Chemistry and Process Industries.
Canad. J. Res.	Canadian Journal of Research.
Caoutchouc et Gutta-Percha	Le Caoutchouc et le Gutta-Percha.
Cellulosechem.	Cellulosechemie.
Cement and Lime Manuf.	Cement and Lime Manufacture.
Céramique	Céramique Verrerie Emailerie.
Cereal Chem.	Cereal Chemistry.
Chaleur et Ind.	Chaleur et Industrie.
Ch. Abs.	Chemical Abstracts.
Chem. Age	Chemical Age.
Chem. App.	Chemische Apparatur.
Chem. Eng. Min. Rev.	Chemical Engineering and Mining Review.
Chem. Erde	Chemie der Erde.
Chem. Fabr.	Die Chemische Fabrik.
Chem. and Ind.	Chemistry and Industry.
Chem. Ind.	Chemische Industrie.
Chem. Listy	Chemické Listy pro Vědu a Průmysl. Organ de la "Česká chemická Společnost pro Vědu a Průmysl."
Chem. Met. Eng.	Chemical and Metallurgical Engineering.
Chem. Obzor	Chemický Obzor.
Chem. Social. Agric.	Chemisation of Socialistic Agriculture (U.S.S.R.).
Chem. Trade J.	Chemical Trade Journal.
Chem. Weekblad	Chemisch Weekblad.
Chem.-Ztg.	Chemiker-Zeitung.
Chem. Zentr.	Chemisches Zentralblatt.
Cheshunt Agric. Exp. Sta. Ann. Rep.	Cheshunt Agricultural Experiment Station Annual Reports.
Chim. e l'Ind.	La Chimica e l'Industria.
Chim. et Ind.	Chimie et Industrie.
Chinese Med. J.	Chinese Medical Journal.
Chinese J. Physics	Chinese Journal of Physics.
Chinese J. Physiol.	Chinese Journal of Physiology.
Coal Age	Coal Age.
Coal Carbonisation	Coal Carbonisation.
Coll. Czech. Chem. Comm.	Collection of Czechoslovak Chemical Communications.
Collegium	Collegium.
Coll. Eng.	Colliery Engineering.
Coll. Guard.	Colliery Guardian.
Colorado Agric. Exp. Sta. Bull.	Colorado Agricultural Experiment Station Bulletin.
Combustion	Combustion.
Compt. rend.	Comptes rendus hebdomadaires des Séances de l'Académie des Sciences.
Compt. rend. Acad. Agric. France	Comptes rendus de l'Académie d'Agriculture de France.
Compt. rend. Acad. Sci. U.R.S.S.	Comptes rendus de l'Académie des Sciences de l'U.R.S.S.
Compt. rend. Soc. Biol.	Comptes rendus des Séances de la Société de Biologie.

ABBREVIATED TITLE.	JOURNAL.
Compt. rend. Trav. Lab. Carlsberg	Comptes rendus des Travaux du Laboratoire Carlsberg.
Contr. Boyce Thompson Inst.	Contributions from Boyce Thompson Institute.
Cornell Univ. Agric. Exp. Sta. Bull.	Cornell University Agricultural Experiment Station Bulletin.
Current Sci.	Current Science.
Cyprus Agric. J.	Cyprus Agricultural Journal.
Dairy Ind.	Dairy Industry.
Dansk Tidsskr. Farm.	Dansk Tidsskrift for Farmaci.
Delaware Agric. Exp. Sta. Bull.	Delaware Agricultural Experiment Station Bulletin.
Dept. Chem. S. Australia, Bull.	Department of Chemistry, South Australia, Bulletins.
Deut. med. Woch.	Deutsche medizinische Wochenschrift.
Deut. Zuckerind.	Die Deutsche Zuckerindustrie.
Drugs, Oils and Paints	Drugs, Oils and Paints.
East Malling Res. Sta., Ann. Repts., etc.	East Malling Research Station, Annual Reports, etc.
Ecology	Ecology.
Econ. Geol.	Economic Geology.
Econ. Proc. Roy. Dubl. Soc.	Economic Proceedings of the Royal Dublin Society.
Elect. Eng.	Electrical Engineering.
Elect. J.	Electrical Journal.
Elect. Times	Electrical Times.
Empire Cotton Growing Rev.	Empire Cotton Growing Review.
Empire Cotton Growing Rep. Exp. Sta.	Empire Cotton Growing Reports of the Experimental Station.
Empire J. Exp. Agric.	Empire Journal of Experimental Agriculture.
Endocrinol.	Endocrinology.
Endokrinol.	Endokrinologie.
Eng. Boiler House Rev.	Engineering and Boiler House Review.
Engineer	Engineer.
Engineering	Engineering.
Eng. and Min. J.	Engineering and Mining Journal.
Eng. News-Rec.	Engineering News-Record.
Enzymologia	Enzymologia.
Ergebn. Physiol.	Ergebnisse der Physiologie.
Ernährung	Die Ernährung.
Ernähr. Pflanze	Ernährung der Pflanze.
F.P.	French Patent.
Facts about Sugar	Facts about Sugar.
Farbe u. Lack	Farbe und Lack.
Farben-Chem.	Farben-Chemiker.
Farben-Ztg.	Farben-Zeitung.
Farm. in S. Africa	Farming in South Africa.
Farve og Lak	Farve og Lak.
Faserforsch.	Faserforschung.
Fermentforsch.	Fermentforschung.
Fert. Feeding Stuffs J.	Fertiliser, Feeding Stuffs and Farm Supplies Journal.
Fette u. Seifen	Fette und Seifen.
Feuerfest	Feuerfest.
Feuerungstech.	Feuerungstechnik.
Finska Kem. Medd.	Finska Kemistisamfundets Meddelanden (Suomen Kemistiseuran Tiedonantoja).
Flora	Flora.
Florida Agric. Exp. Sta. Bull.	Florida Agricultural Experiment Station Bulletin.
Folia Biol.	Folia Biologica.
Food	Food.
Food Manuf.	Food Manufacture.
Food Res.	Food Research.
Forstarchiv	Forstarchiv.
Foundry Trade J.	Foundry Trade Journal.
Fruit Prod. J.	Fruit Products Journal.
Fuel	Fuel in Science and Practice.
Fuel Econ.	Fuel Economist.
Fuel Econ. Rev.	Fuel Economy Review.
G.P.	German Patent.
Gartenbauwiss.	Gartenbauwissenschaft.
Gas Age-Rec.	Gas Age-Record.
Gas Ind.	Gas Industry.
Gas J.	Gas Journal.

ABBREVIATED TITLE.	JOURNAL.	ABBREVIATED TITLE.	JOURNAL.
Gas Oil Power . . .	Gas and Oil Power.	J. Amer. Med. Assoc..	Journal of the American Medical Association.
Gas Times . . .	Gas Times.	J. Amer. Pharm. Assoc.	Journal of the American Pharmaceutical Association.
Gas- u. Wasserfach . . .	Gas- und Wasserfach.	J. Amer. Soc. Agron..	Journal of the American Society of Agronomy.
Gas World . . .	Gas World.	J. Amer. Soc. Mech. Eng.	Journal of the American Society of Mechanical Engineers.
Gazzetta . . .	Gazzetta chimica italiana.	J. Amer. Vet. Med. Assoc.	Journal of the American Veterinary Medical Association.
Gen. Elect. Rev. . .	General Electric Review.	J. Amer. Water Works Assoc.	Journal of the American Water Works Association.
Génie Civil . . .	Génie Civil.	J. Annamalai Univ. .	Journal of the Annamalai University.
Geol. Mag. . .	Geological Magazine.	J. Appl. Chem. Russia.	Journal of Applied Chemistry, Russia.
Georgia Agric. Exp. Sta. Bull.	Georgia Agricultural Experiment Station Bulletin.	J. Appl. Physics . .	Journal of Applied Physics (formerly Physics).
Gerber . . .	Der Gerber.	J. Assoc. Off. Agric. Chem.	Journal of the Association of Official Agricultural Chemists.
Ges. Abh. Kennt. Kohle . . .	Gesammelte Abhandlungen der Kenntnis der Kohle.	J. Austral. Inst. Agric. Sci.	Journal of the Australian Institute of Agricultural Science.
Gesundheitsing. . .	Gesundheitsingenieur.	J. Bact. . . . .	Journal of Bacteriology.
Giesserei . . .	Die Giesserei.	J. Biochem. Japan . .	Journal of Biochemistry, Japan.
Glashütte . . .	Die Glashütte.	J. Biol. Board Canad.	Journal of the Biological Board of Canada.
Glass Ind. . .	Glass Industry.	J. Biol. Chem. . . .	Journal of Biological Chemistry.
Glastech. Ber. . .	Glastechnische Berichte.	J. Brit. Dairy Farmers' Assoc.	Journal of the British Dairy Farmers' Association.
Glückauf . . .	Glückauf.	J. Brit. Wood Pres. Assoc.	Journal of the British Wood Preserving Association.
Gummi-Ztg. . .	Gummi-Zeitung.	J. Canad. Min. Inst. .	Journal of the Canadian Mining Institute.
Handl. Ing. Vetensk. Akad.	Handlingar Ingeniörs Vetenskaps Akademien.	J. Cancer Res. Comm. Sydney	Journal of the Cancer Research Committee of the University of Sydney.
Hawaii Agric. Exp. Stat. Bull.	Hawaii Agricultural Experiment Station Bulletins.	J. Cell. Comp. Physiol.	Journal of Cellular and Comparative Physiology.
Heat Treat. Drying . .	Heat Treating and Drying.	J. Cellulose Inst. Tokyo	Cellulose Industry, Journal of the Cellulose Institute, Tokyo.
Heat Treat. Forg. . .	Heat Treating and Forging.	J. Chem. Educ. . . .	Journal of Chemical Education.
Helv. Chim. Acta . .	Helvetica Chimica Acta.	J. Chem. Eng. China .	Journal of Chemical Engineering, China.
Het Gas . . .	Het Gas.	J. Chem. Ind. Russ. .	Journal of Chemical Industry, Russia.
Hilgardia . . .	Hilgardia.	J. Chem. Met. Soc. S. Africa	Journal of the Chemical, Metallurgical, and Mining Society of South Africa.
Holz . . .	Holz als Roh- und Werkstoff.	J. Chem. Physics . .	Journal of Chemical Physics.
Hosiery Tr. J. . .	Hosiery Trade Journal.	J. Chem. Soc. Japan .	Journal of the Chemical Society of Japan. (Nippon Kwagaku Kwai Shi.)
Imp. Bur. Soil Sci. Tech. Comm. . .	Imperial Bureau of Soil Science, Technical Communications.	J. Chim. phys. . . .	Journal de Chimie physique.
Indian J. Agric. Sci. .	Indian Journal of Agricultural Science.	J. Chinese Chem. Soc.	Journal of the Chinese Chemical Society.
Indian J. Med. Res. .	Indian Journal of Medical Research.	J. Coll. Agric. Hokkaido	Journal of the College of Agriculture, Hokkaido Imperial University, Japan.
Indian J. Physics . .	Indian Journal of Physics.	J. Coll. Agric. Tokyo .	Journal of the College of Agriculture, Imperial University of Tokyo, Japan.
Indian J. Vet. Sci. .	Indian Journal of Veterinary Science.	J. Coll. Eng. Tokyo . .	Journal of the College of Engineering, Imperial University of Tokyo.
Indian Lac Res. Inst. Bull.	Indian Lac Research Institute Bulletin.	J. Coll. Sci. Tokyo . .	Journal of the College of Science, Imperial University of Tokyo.
India-rubber J. . .	India-rubber Journal.	J. Counc. Sci. Ind. Res. Australia	Journal of the Council of Scientific and Industrial Research of Australia.
Ind. Chem. . . .	Industrial Chemist.	J. Dairy Res. . . .	Journal of Dairy Research.
Ind. Eng. Chem. . .	Industrial and Engineering Chemistry.	J. Dairy Sci. . . .	Journal of Dairy Science.
Ind. Eng. Chem. (Anal.) . .	Industrial and Engineering Chemistry, Analytical Edition.	J. Dept. Agric. I.F.S.	Journal of the Department of Agriculture of the Irish Free State.
Ind. y. Quím. . . .	Industria y Química, Revista de la Asociacion Química Argentina.	J. Dept. Agric. Kyushu	Journal of the Department of Agriculture, Kyushu Imperial University.
Indust. Heating . .	Industrial Heating.	J. Dept. Agric. S. Australia	Journal of the Department of Agriculture South Australia.
Inst. Gas Eng. Comm.	Institution of Gas Engineers, Communications.	J. Dept. Agric. Victoria	Journal of the Department of Agriculture, Victoria.
Int. Rev. Agric. . .	International Review of Agriculture.	J. Dept. Agric. W. Australia	Journal of the Department of Agriculture, Western Australia.
Int. Sugar J. . . .	International Sugar Journal.	J. Ecology . . . .	Journal of Ecology.
Iron Age . . . .	Iron Age.	J. Econ. Entomol. . .	Journal of Economic Entomology.
Iron Coal Tr. Rev. .	Iron and Coal Trades Review.	J. Egypt. Med. Assoc.	Journal of the Egyptian Medical Association.
Iron Steel Eng. . .	Iron and Steel Engineering.	J. Electrodep. Tech. Soc.	Journal of the Electrodepositors Technical Society.
Iron Steel Ind. . .	Iron and Steel Industry.	J. Elisha Mitchell Sci. Soc.	Journal of the Elisha Mitchell Scientific Society.
Iron Steel Inst. Carnegie Schol. Mem.	Iron and Steel Institute, Carnegie Scholarship Memoirs.	J. Exp. Biol. . . .	Journal of Experimental Biology.
J.C.S. . . . .	Journal of the Chemical Society.	J. Exp. Med. . . .	Journal of Experimental Medicine.
Jahrb. geol. Reichsanst.	Jahrbuch der geologischen Reichsanstalt.		
Jahrb. Min. . . .	Neues Jahrbuch für Mineralogie, Geologie und Paläontologie.		
Jahrb. Min. Beil.-Bd.	Neues Jahrbuch für Mineralogie, Geologie und Paläontologie, Beilage-Band.		
Jahrb. Radioaktiv. .	Jahrbuch der Radioaktivität und Elektronik.		
Jahrb. wiss. Bot. . .	Jahrbuch für wissenschaftliche Botanik.		
Japan. J. Med. Sci. .	Japanese Journal of Medical Sciences.		
Japan. J. Physics . .	Japanese Journal of Physics.		
Japan Nickel Rev. .	Japan Nickel Review.		
Jernkont. Ann. . .	Jernkontorets Annaler.		
J. Agric. Chem. Soc. Japan	Journal of the Agricultural Chemical Society of Japan.		
J. Agric. Res. . . .	Journal of Agricultural Research.		
J. Agric. Sci. . . .	Journal of Agricultural Science.		
J. Amer. Ceram. Soc.	Journal of the American Ceramic Society.		
J. Amer. Chem. Soc.	Journal of the American Chemical Society.		
J. Amer. Leather Chem. Assoc.	Journal of the American Leather Chemists' Association.		

ABBREVIATED TITLE.	JOURNAL.	ABBREVIATED TITLE.	JOURNAL.
J. Fac. Sci. Tokyo .	J. Faculty of the Science, Imperial University of Tokyo (formerly J. Coll. Sci. Tokyo).	J. Roy. Aeronaut. Soc.	Journal of the Royal Aeronautical Society.
J. Franklin Inst. .	Journal of the Franklin Institute.	J. Roy. Agric. Soc. .	Journal of the Royal Agricultural Society.
J. Fuel Soc. Japan .	Journal of the Fuel Society of Japan.	J. Roy. Hort. Soc. .	Journal of the Royal Horticultural Society.
J. Gen. Chem. Russ. .	Journal of General Chemistry, Russia (formerly J. Russ. Phys. Chem. Soc.).	J. Roy. Microscop. Soc.	Journal of the Royal Microscopical Society.
J. Gen. Physiol. .	Journal of General Physiology.	J. Roy. Soc. West Australia	Journal of the Royal Society of West Australia.
J. Geol. .	Journal of Geology.	J. Roy. Tech. Coll. .	Journal of the Royal Technical College (Glasgow).
J. Geol. Soc. Tokyo .	Chishitsugaku Zasshi (Journal of the Geological Society of Tokyo).	J. Rubber Res. .	Journal of Rubber Research.
J. Hyderabad Geol. Soc.	Journal of the Hyderabad Geological Society.	J. Rubber Res. Inst. Malaya	Journal of the Rubber Research Institute of Malaya.
J. Hygiene .	Journal of Hygiene.	J. Sci. Hiroshima Univ.	Journal of Science of the Hiroshima University.
J. Indian Chem. Soc.	Journal of the Indian Chemical Society.	J. Sci. Instr. .	Journal of Scientific Instruments.
J. Indian Inst. Sci. .	Journal of the Indian Institute of Science.	J. Sci. Tech. India .	Journal of Science and Technology, India.
J. Ind. Hyg. .	Journal of Industrial Hygiene and Toxicology.	J. Scot. Met. Soc. .	Journal of the Scottish Meteorological Society.
J. Infect. Dis. .	Journal of Infectious Diseases.	J. Soc. Arts .	Journal of the Royal Society of Arts.
J. Inst. Brew. .	Journal of the Institute of Brewing.	J. Soc. Auto Eng. .	Journal of the Society of Automobile Engineers.
J. Inst. Electr. Eng. .	Journal of the Institution of Electrical Engineers.	J.S.C.I. .	Journal of the Society of Chemical Industry.
J. Inst. Fuel .	Journal of the Institute of Fuel.	J. Soc. Chem. Ind. Japan	Journal of the Society of Chemical Industry, Japan. (Kōgyō Kwagaku Zasshi.)
J. Inst. Heat. Vent. Eng.	Journal of the Institution of Heating and Ventilating Engineers.	J. Soc. Dyers and Col.	Journal of the Society of Dyers and Colourists.
J. Inst. Metals .	Journal of the Institute of Metals.	J. Soc. Glass Tech. .	Journal of the Society of Glass Technology.
J. Inst. Petroleum Tech.	Journal of the Institution of Petroleum Technologists.	J. Soc. Leather Trades' Chem.	Journal of the International Society of Leather Trades' Chemists.
J. Inst. Sewage Purif.	Journal of the Institute of Sewage Purification.	J. S. African Chem. Inst.	Journal of the South African Chemical Institute.
J. Iron and Steel Inst.	Journal of the Iron and Steel Institute.	J. South-East. Agric. Coll.	Journal of the South-Eastern Agricultural College, Wye, Kent.
J. Jamaica Agric. Soc.	Journal of the Jamaica Agricultural Society.	J. State Med. .	Journal of State Medicine.
J. Jap. Ceram. Assoc.	Journal of the Japanese Ceramic Association.	J. Text. Inst. .	Journal of the Textile Institute.
J. Landw. .	Journal für Landwirtschaft.	J. Univ. Bombay .	Journal of the University of Bombay.
J. Marine Biol. Assoc.	Journal of the Marine Biological Association of the United Kingdom.	J. Usines Gaz .	Journal des Usines à Gaz.
J. Math. Phys. Mass. Inst. Tech.	Journal of Mathematics and Physics, Massachusetts Institute of Technology.	J. Washington Acad. Sci.	Journal of the Washington Academy of Sciences.
J. Med. Res. .	Journal of Medical Research.	J. West Scotland Iron Steel Inst.	Journal of the West of Scotland Iron and Steel Institute.
J. Min. Agric. .	Journal of the Ministry of Agriculture.	Kali .	Kali verwandte Salze und Erdöl.
J. Min. Agric. N. Ireland	Journal of the Ministry of Agriculture of Northern Ireland.	Kalii .	Kalii (Russia).
J. Nat. Smoke Abatement Soc.	Journal of the National Smoke Abatement Society.	Kautschuk .	Kautschuk.
J. New England Water Works Assoc.	Journal of the New England Water Works Association.	Keijo J. Med. .	Keijo Journal of Medicine.
J. New Zealand Inst. Chem.	Journal of the New Zealand Institute of Chemistry.	K. Svenska Vet. Akad. Handl.	Kongliga Svenska Vetenskaps Akademiens Handlingar.
J. Nutrition .	Journal of Nutrition.	Kentucky Agric. Exp. Stat. Bull.	Kentucky Agricultural Experimental Station, Bulletin.
J. Oil Ool. Chem. Assoc.	Journal of the Oil and Colour Chemists' Association.	Keram. Rundsch. .	Keramische Rundschau und Kunst-Keramik.
J. Opt. Soc. Amer. .	Journal of the Optical Society of America.	Kohle u. Erz .	Kohle und Erz.
J. Org. Chem. .	Journal of Organic Chemistry.	Koks i Chim. .	Koks i Chimia.
J. Path. Bact. .	Journal of Pathology and Bacteriology.	Kolloid-Beih. .	Kolloid-Beihefte.
J. Pharm. Chim. .	Journal de Pharmacie et de Chimie.	Kolloid. Shurn. .	Kolloidni Shurnal.
J. Pharm. Exp. Ther.	Journal of Pharmacology and Experimental Therapeutics.	Kolloid-Z. .	Kolloid-Zeitschrift.
J. Pharm. Soc. Japan	Journal of the Pharmaceutical Society of Japan. (Yakugakuzasshi.)	Koppers Rev. .	Koppers Review.
J. Physical Chem. .	Journal of Physical Chemistry.	Korros. u. Metallschutz	Korrosion und Metallschutz.
J. Phys. Chem. Russ.	Shurnal Fizitscheskoi Chimii.	Kunstseide .	Kunstseide und Zellwolle.
J. Physiol. .	Journal of Physiology.	Kunststoffe .	Kunststoffe.
J. Physiol. Path. gén.	Journal de Physiologie et de Pathologie générale.	Lait .	Le Lait.
J. Phys. Radium .	Journal de Physique et le Radium.	Lancet .	The Lancet.
J. Pomology .	Journal of Pomology and Horticultural Science.	Landw. Jahrb. .	Landwirtschaftliche Jahrbücher.
J. pr. Chem. .	Journal für praktische Chemie.	Landw. Versuchs-Stat.	Die landwirtschaftlichen Versuchs-Stationen.
J. Proc. Asiatic Soc. Bengal	Journal and Proceedings of the Asiatic Society of Bengal.	Latvij. Univ. Raksti.	Latvijas Universitātes Raksti, Kimijas Fakultātes Serija.
J. Proc. Austral. Chem. Inst.	Journal and Proceedings of the Australian Chemical Institute.	Ledertech. Rundsch. .	Ledertechnische Rundschau.
J. Proc. Roy. Soc. New South Wales .	Journal and Proceedings of the Royal Society of New South Wales.	London Shellac Res. Bur., Tech. Paper	London Shellac Research Bureau, Technical Paper.
J. Res. Nat. Bur. Stand.	Journal of Research of the National Bureau of Standards.	Louisiana Planter .	Louisiana Planter.
		Malay. Agric. J. .	Malayan Agricultural Journal.
		Maslob. Shir. Delo .	Masloboino Shirovoo Delo.

ABBREVIATED TITLE.	JOURNAL.	ABBREVIATED TITLE.	JOURNAL.
Mass. Agric. Exp. Sta. Bull.	Massachusetts Agricultural Experiment Station Bulletin.	Montana Agric. Exp. Sta. Bull.	Montana Agricultural Experiment Station Bulletin.
Materie Plast.	Materie Plastiche.	Montan. Runds.	Montanistische Rundschau.
Mech. Eng.	Mechanical Engineering.	Month. J. Inst. Metals	Monthly Journal of the Institute of Metals.
Mech. World	Mechanical World.	Month. Not. Roy. Astr. Soc.	Monthly Notices of the Royal Astronomical Society, London.
Medd. K. Vetenskaps-akad. Nobel-Inst.	Meddelanden från Kongl-Vetenskaps-akademions Nobel-Institut.	Month. Rep. Dept. Agric. N. Ireland	Monthly Reports of the Department of Agriculture of Northern Ireland.
Med. Doświad.	Medycyna Doświadczalna i Społeczna.	Mühlenlab.	Das Mühlenlaboratorium.
Mem. Accad. Lincei	Memorie della Reale Accademia Nazionale dei Lincei.	Münch. med. Woch.	Münchener medizinische Wochenschrift.
Mem. Accad. Sci. Torino	Memorie della Reale Accademia delle Scienze di Torino.	Nachr. Ges. Wiss. Göttingen	Nachrichten von der Gesellschaft der Wissenschaften zu Göttingen.
Mem. Coll. Agric. Kyoto	Memoirs of the College of Agriculture, Kyoto Imperial University.	Nat. Butter & Cheese J.	National Butter and Cheese Journal.
Mem. Coll. Sci. Kyoto	Memoirs of the College of Science, Kyoto Imperial University.	Nat. Paint Var. Assoc. Circ.	National Paint, Varnish, and Lacquer Association, Inc., Circular.
Mem. Dept. Agric. India	Memoirs of the Department of Agriculture in India.	Nat. Petroleum News.	National Petroleum News.
Mem. Inst. Chem. Ukrain. Acad. Sci.	Memoirs of the Institute of Chemistry, Ukrainian Academy of Sciences.	Nature	Nature.
Mem. Manchester Phil. Soc.	Memoirs and Proceedings of the Manchester Literary and Philosophical Society.	Natuurwetensch. Tijds.	Natuurwetenschappelijk Tijdschrift.
Mém. Poudres	Mémorial des Poudres.	Naturwiss.	Die Naturwissenschaften.
Mém. Soc. Ing. Civ. France	Mémoires et Compte rendu des Travaux de la Société des Ingénieurs Civils de France.	New Hamps. Agric. Exp. Sta. Bull.	New Hampshire Agricultural Experiment Station Bulletin.
Mct. Clean. and Fin.	Metal Cleaning and Finishing.	New Jersey Agric. Exp. Sta. Bull.	New Jersey Agricultural Experiment Station Bulletin.
Mét. Corros.	Métaux et Corrosion.	New Phytol.	New Phytologist.
Metal Ind.	Metal Industry.	New York Agr. Expt. Sta. Bull.	New York State Agricultural Experiment Station Bulletins.
Metal Ind. (London).	Metal Industry.	New York (Geneva) Agric. Exp. Sta. Bull.	New York (Geneva) Agricultural Experiment Station Bulletin.
Metal Ind. (N.Y.).	Metal Industry (New York).	New Zealand Dominion Laby. Rept.	New Zealand Dominion Laboratory Reports.
Metallwirts.	Metallwirtschaft Wissenschaft Technik.	New Zealand J. Agric.	New Zealand Journal of Agriculture.
Metal Progr.	Metal Progress.	New Zealand J. Sci. Tech.	New Zealand Journal of Science and Technology.
Metall u. Erz	Metall und Erz.	Nova Acta Soc. Sci.	Nova Acta Regiae Societatis Scientiarum Upsaliensis.
Metallges. Rev.	Metallgesellschaft Periodic Review.	Nuovo Cim.	Nuovo Cimento.
Metallurgia	Metallurgia.	Nutr. Abs.	Nutrition Abstracts and Reviews.
Mct. & Alloys	Metals and Alloys.	Oberflächentech.	Oberflächentechnik.
Metals Tech.	Metals Technology.	Obst. u. Gemüsebau	Der Obst und Gemüsebau.
Metrop. Water Bd. Rep.	Metropolitan Water Board Reports.	Öfers. Finska Vet.-Soc.	Öfersigt af Finska Vetenskaps-Societätens Förhandlingar, Helsingfors.
Metro-Vickers Gaz.	Metropolitan-Vickers Gazette.	Oel u. Kohle	Oel und Kohle.
Mezőg. Kutat.	Mezőgazdasági Kutatások.	Öle, Fette, Wächse	Öle, Fette, Wächse, Seife, Kosmetik.
Mich. Agric. Exp. Sta. Bull.	Michigan Agricultural Experiment Station Bulletin.	Österr. Chem.-Ztg.	Österreichische Chemiker-Zeitung.
Mikrochem.	Mikrochemie.	Off. Digest.	Official Digest of the Federation of Paint and Varnish Production Clubs.
Mikrochim. Acta	Mikrochimica Acta.	Ohio Agric. Exp. Sta. Bull.	Ohio Agricultural Experiment Station Bulletin.
Milch. Forsch.	Milchwirtschaftliches Forschungen.	Oil and Gas J.	Oil and Gas Journal.
Milch. Zentr.	Milchwirtschaftliches Zentralblatt.	Oil and Soap	Oil and Soap.
Milk Ind.	Milk Industry.	Oklahoma Agric. Exp. Sta. Bull.	Oklahoma Agricultural Experiment Station Bulletin.
Milk Plant Month.	Milk Plant Monthly.	Org. Chem. Ind. Russ.	See Prom. Org. Chim.
Min. Mag.	Mineralogical Magazine and Journal of the Mineralogical Society.	Oversigt Danske Vid. Selsk.	Oversigt over det Kongelige Danske Videnskabernes Selskabs Forhandlingar.
Min. & Met.	Mining and Metallurgy.	Pacific Pulp and Paper Ind.	Pacific Pulp and Paper Industry.
Missouri Agric. Exp. Sta. Res. Bull.	Missouri Agricultural Experiment Station Research Bulletin.	Paint, Oil, and Chem. Rev.	Paint, Oil, and Chemical Review.
Mitt. Kaiser-Wilh. Inst. Eisenforsch.	Mitteilungen aus dem Kaiser-Wilhelm Institut für Eisenforschung zu Dusseldorf.	Paint Manuf.	Paint Manufacture.
Mitt. Kohlenforschungsinst. Prag	Mitteilungen des Kohlenforschungsinstituts in Prag.	Paint Tech.	Paint Technology.
Mitt. Kohle- u. Eisenforsch.	Mitteilungen der Kohle- und Eisenforschung G.m.b.H.	Paint and Var. Prod. Man.	Paint and Varnish Production Manager.
Mitt. Lebensm. Hyg.	Mitteilungen aus dem Gebiete der Lebensmitteluntersuchungen und Hygiene.	Paper	Paper.
Mitt. Materialprüf.	Mitteilungen aus dem Materialprüfungsamt zu Gross-Lichterfelde West.	Paper Ind.	Paper Industry.
Mitt. med. Ges. Tokyo	Mitteilungen der medizinischen Gesellschaft zu Tokyo.	Paper-Maker	Paper-Maker and British Paper Trade Journal.
Mitt. Path. Inst. K. Univ. Japan	Mitteilungen aus dem pathologischen Institut der Kaiserlichen Universität zu Sendai, Japan.	Paper Mill	Paper Mill.
Mitt. Textilforsch. Krefeld	Mitteilungen der Textilforschungsanstalt Krefeld e.V.	Paper Trade J.	Paper Trade Journal.
Monatsbull. Schweiz. Ver. Gas- u. Wasserfach.	Schweizerischen Verein von Gas- und Wasserfachmännern, Monats-Bulletin.	Papier-Fabr.	Papier-Fabrikant.
Monatsh.	Monatshefte für Chemie und verwandte Teile anderer Wissenschaften.	Pedology	Pedology.
		Peint., Pig., Ver.	Peinture, Pigment, Vernis.
		Perf. & Essent. Oil Rec.	Perfumery and Essential Oil Record.
		Petrol. Eng.	Petroleum Engineering.
		Petrol. Times	Petroleum Times.

ABBREVIATED TITLE.	JOURNAL.	ABBREVIATED TITLE.	JOURNAL.
Petroleum . . .	Petroleum (German).	Proc. Nat. Acad. Sci..	Proceedings of the National Academy of Sciences.
Pflüger's Archiv . . .	Archiv für die gesamte Physiologie des Menschen und der Tiere.	Proc. Nat. Acad. Sci. India	Proceedings of the National Academy of Sciences of India.
Pharm. J. . . . .	Pharmaceutical Journal.	Proc. Nova Scotian Inst. Sci.	Proceedings of the Nova Scotian Institute of Science.
Pharm. Weekblad . . .	Pharmaceutisch Weekblad.	Proc. Phil. Soc. Glasgow	Proceedings of the Glasgow Philosophical Society.
Pharm. Ztg. . . . .	Pharmazeutische Zeitung.	Proc. Physical Soc. . .	Proceedings of the Physical Society of London.
Pharm. Zentr. . . . .	Pharmazeutische Zentralhalle.	Proc. Physiol. Soc. . .	Proceedings of the Physiological Society.
Philippine Agric. . . .	Philippine Agriculturist.	Proc. Roy. Inst. . . .	Proceedings of the Royal Institution of Great Britain.
Philippine J. Sci. . . .	Philippine Journal of Science.	Proc. Roy. Irish Acad.	Proceedings of the Royal Irish Academy.
Phil. Mag. . . . .	Philosophical Magazine (The London, Edinburgh, and Dublin).	Proc. Roy. Soc. . . .	Proceedings of the Royal Society.
Phil. Trans. . . . .	Philosophical Transactions of the Royal Society of London.	Proc. Roy. Soc. Edin.	Proceedings of the Royal Society of Edinburgh.
Phot. Ind. . . . .	Photographische Industrie.	Proc. Roy. Soc. Med..	Proceedings of the Royal Society of Medicine.
Phot. J. . . . .	Photographic Journal.	Proc. Roy. Soc. . . .	Proceedings of the Royal Society of Queensland.
Phot. Korrr. . . . .	Photographische Korrespondenz.	Proc. Roy. Soc. Tasmania	Proceedings of the Royal Society of Tasmania.
Physica . . . . .	Physica.	Proc. Sci. Assoc., Vizianagram	Proceedings of the Science Association, Maharajah's College, Vizianagram.
Physical Rev. . . . .	Physical Review.	Proc. Soc. Biol. Chem. India.	Proceedings of the Society of Biological Chemists, India.
Physics . . . . .	Physics (now Journal of Applied Physics).	Proc. Soc. Exp. Biol. Med.	Proceedings of the Society for Experimental Biology and Medicine.
Physikal. Z. . . . .	Physikalische Zeitschrift.	Proc. Soil Sci. Soc. Amer.	Proceedings of the Soil Science Society of America.
Physikal. Z. Soviet-union	Physikalische Zeitschrift der Soviet-union.	Proc. S. Wales Inst. Eng.	Proceedings of the South Wales Institute of Engineers.
Phytopath. . . . .	Phytopathology.	Proc. Tech. Sect. Paper Makers' Assoc.	Proceedings of the Technical Section of the Paper Makers' Association of Great Britain and Ireland.
Phytopath. Z. . . . .	Phytopathologische Zeitschrift.	Proc. U.S. Nat. Mus. . .	Proceedings of the United States National Museum.
Plant Physiol. . . . .	Plant Physiology.	Prom. Org. Chim. . . .	Promischlennosti Organitscheskoi Chimii.
Planta (Z. wiss. Biol.)	Planta (Zeitschrift für wissenschaftliche Biologie).	Protoplasma . . . . .	Protoplasma.
Plast. Massen . . . . .	Plastische Massen.	Przemysl Chem. . . . .	Przemysl Chemiczny.
Plast. Massi . . . . .	Plastische Massi.	Publ. Fac. Sci. Univ. Masaryk	Publications de la Faculté des Sciences de l'Université Masaryk (Spisy vydávané Přírodovědeckou Facoul-tou Masarykovy University).
Poultry Sci. . . . .	Poultry Science.	Pulp and Paper Mag. Canada	Pulp and Paper Magazine of Canada.
Power Plant Eng. . . .	Power Plant Engineering.	Quart. J. Exp. Physiol.	Quarterly Journal of Experimental Physiology.
Proc. Acad. Sci. Agra and Oudh	Proceedings of the Academy of Sciences of the United Provinces of Agra and Oudh, India.	Quart. J. Geol. Soc. . .	Quarterly Journal of the Geological Society.
Proc. Amer. Acad. Arts Sci.	Proceedings of the American Academy of Arts and Sciences.	Quart. J. Med. . . . .	Quarterly Journal of Medicine.
Proc. Amer. Gas Assoc.	Proceedings of the American Gas Association.	Quart. J. Pharm. . . .	Quarterly Journal of Pharmacy and Pharmacology.
Proc. Amer. Phil. Soc.	Proceedings of the American Philosophical Society.	Quart. Rev. Forest Prod. Labs. Montreal	Quarterly Review of the Forest Products Laboratories, Montreal.
Proc. Amer. Physiol. Soc.	Proceedings of the American Physiological Society.	Queensland J. Agric..	Queensland Journal of Agriculture.
Proc. Amer. Soc. Biol. Chem.	Proceedings of the American Society of Biological Chemists.	Rasāyanam . . . . .	Rasāyanam.
Proc. Amer. Soc. Civ. Eng.	Proceedings of the American Society of Civil Engineers.	Rayon Text. Month. . .	Rayon Textile Monthly.
Proc. Amer. Soc. Hort. Sci. . . .	Proceedings of the American Society of Horticultural Science.	Rayon World . . . . .	Rayon World (Japan).
Proc. Amer. Soc. Test. Mat.	Proceedings of the American Society for Testing Materials.	Rec. Australian Mus.	Records of the Australian Museum.
Proc. Austral. Inst. Min. Met.	Proceedings of the Australasian Institute of Mining and Metallurgy.	Rec. trav. bot. Néerlandais.	Recueil des travaux botaniques Néerlandais.
Proc. Camb. Phil. Soc.	Proceedings of the Cambridge Philosophical Society.	Rec. trav. chim. . . . .	Recueil des travaux chimiques des Pays-Bas.
Proc. Durham Phil. Soc.	Proceedings of the University of Durham Philosophical Society.	Refiner . . . . .	Refiner and Natural Gasoline Manufacturer.
Proc. Eng. Soc. W. Pa.	Proceedings of the Engineers' Society of Western Pennsylvania.	Rend. Accad. Sci. Fis. Mat. Napoli	Rendiconto dell' Accademia delle Scienze Fisiche e Matematiche, Napoli.
Proc. Imp. Acad. Tokyo	Proceedings of the Imperial Academy (Tokyo).	Rend. Ist. Lomb. Sci. Lett.	Rendiconti dell' Reale Istituto Lombardo di Scienze e Lettere.
Proc. Indian Acad. Sci.	Proceedings of the Indian Academy of Sciences.	Rensselaer Polyt. Inst. Bull.	Rensselaer Polytechnic Institute Bulletin.
Proc. Inst. Auto Eng.	Proceedings of the Institution of Automobile Engineers.	Rep. Aust. Assoc. Sci.	Report of the Australian Association for the Advancement of Science.
Proc. Inst. Civ. Eng. . .	Proceedings of the Institution of Civil Engineers.	Rep. Brit. Assoc. . . .	Report of the British Association for the Advancement of Science.
Proc. Inst. Mech. Eng.	Proceedings of the Institution of Mechanical Engineers.		
Proc. Internat. Cong. Soil Sci.	Proceedings of the International Congress of Soil Science.		
Proc. Internat. Soc. Soil Sci.	Proceedings of the International Society of Soil Science.		
Proc. K. Akad. Wetensch. Amsterdam	Koninklijke Akademie van Wetenschappen te Amsterdam. Proceedings (English version).		
Proc. Leningrad Dept. Inst. Fert.	Proceedings of the Leningrad Departmental Institute of Fertilisers.		
Proc. Muslim Assoc. . .	Proceedings of the Muslim Association for the Advancement of Science.		

ABBREVIATED TITLE.	JOURNAL.
Rep. Inst. Sci. Res. Manchoukuo	Report of the Institute of Scientific Research, Manchoukuo.
Res. Stud. State Coll. Washington	Research Studies of the State College of Washington.
Rev. Aluminium	Revue de l'Aluminium.
Rev. Chim. Ind.	Revista de Chimica Industrial.
Rev. Chim. pure appl.	Revista de Chimica pura e applicada, Órgão de Sociedade Portuguesa de Química e Física.
Rev. Comb. liq.	Revue des Combustibles liquides.
Rev. Fac. Quim. Ind. Agric.	Revista de la Facultad de Química Industrial y Agrícola.
Rev. Gén. Mat. Col.	Revue Générale des Matières Colorantes.
Rev. Gén. Mat. Plast.	Revue Générale des Matières Plastiques.
Rev. l'Ind. Min.	Revue de l'Industrie Minière.
Rev. Mat. Constr.	La Revue des Matériaux de Construction et de Travaux Publics.
Rev. Mét.	Revue de Métallurgie.
Rev. Microbiol. Appl.	Revue de Microbiologie Appliquée à l'Agriculture, à l'Hygiène, à l'Industrie.
Rev. Mod. Physics	Reviews of Modern Physics.
Rev. Phys. Chem. Japan	Review of Physical Chemistry of Japan.
Rev. Quim. Farm.	Revista de Química e Farmacia.
Rev. Sci. Instr.	Review of Scientific Instruments.
Rev. Univ. Min.	Revue Universelle des Mines.
Ric. Scient.	Ricerca Scientifica.
Riv. Biol.	Rivista de Biologia.
Rocz. Chem.	Roczniki Chemji organ Polskiego Towarzystwa Chemicznego.
Rocz. Nauk Roln. Lesn.	Roczniki Nauk Rolniczych i Leśnych.
Sands, Clays and Min.	Sands, Clays and Minerals.
Sborn. Trud. Ukrain. Chim. Inst. Odessa	Sbornik Trudov Ukrainского Nauchno-Issledova-Telskogo Chimitscheskogo Instituta Odessa.
Schlagel u. Eisen	Schlagel und Eisen.
Science	Science.
Sci. Agric.	Scientific Agriculture.
Sci. and Cult.	Science and Culture.
Sci. et Ind.	Science et Industrie.
Sci. Ind. Rep. Roure-Bertrand Fils	Scientific and Industrial Reports of Roure-Bertrand Fils.
Sci. Mem. Univ. Saratov	Scientific Memoirs of the University of Saratov.
Sci. Papers Inst. Phys. Chem. Res. Tokyo	Scientific Papers of the Institute of Physical and Chemical Research, Tokyo.
Sci. Proc. Roy. Dublin Soc.	Scientific Proceedings of the Royal Dublin Society.
Sci. Quart. Nat. Univ. Peking	Science Quarterly of the National University of Peking.
Sci. Rep. Hiroshima Tech. Sch.	Scientific Reports of the Hiroshima Higher Technical School.
Sci. Rep. Tōhoku	Science Reports, Tōhoku Imperial University.
Sci. Rep. Tokyo Bunrika Daigaku	Science Reports of the Tokyo Bunrika Daigaku.
Sci. Rep. Tsing Hua Univ.	Science Reports of the National Tsing Hua University.
Sci. Sect. Nat. Paint, Var. Assoc. Circ.	Scientific Section, National Paint, Varnish, and Lacquer Association, Inc., Circulars.
Sci. Trans. Roy. Dublin Soc.	Scientific Transactions of the Royal Dublin Society.
Scot. J. Agric.	Scottish Journal of Agriculture.
Seifens.-Ztg.	Seifensieder-Zeitung.
Sewage Works J.	Sewage Works Journal.
Sheet Metal Ind.	Sheet Metal Industries.
Siemens Z.	Siemens Zeitschrift.
Sitzungsber. Akad. Wiss. Wien	Sitzungsberichte der Akademie der Wissenschaften, Wien.
Sitzungsber. Heidelberger Akad. Wiss.	Sitzungsberichte der Heidelberger Akademie der Wissenschaften.
Sitzungsber. Preuss. Akad. Wiss. Berlin	Sitzungsberichte der Preussischen Akademie der Wissenschaften zu Berlin.
Smithsonian Misc. Coll.	Smithsonian Miscellaneous Collection.

ABBREVIATED TITLE.	JOURNAL.
Soap	Soap.
Soap Trade Rev.	Soap, Perfumery and Cosmetic Trade Review.
Soil Res.	Soil Research.
Soil Sci.	Soil Science.
S. African J. Sci.	South African Journal of Science.
Sparwirts.	Sparwirtschaft.
Sprechsaal	Sprechsaal für Keramik-Glas-Email.
Stahl u. Eisen	Stahl und Eisen.
Stain Tech.	Stain Technology.
Staz. sper. agr. ital.	Stazioni sperimentali agrarie italiane.
Steam Eng.	Steam Engineer.
Steel	Steel.
Sugar Bull.	Sugar Bulletin.
Suomen Kem.	Suomen Kemistilehti Acta Chemica Fennica.
Superphosphat	Superphosphat.
Superphosphate	Superphosphate.
Svensk Kem. Tidskr.	Svensk Kemisk Tidskrift.
Tasmanian Agric. J.	Tasmanian Agricultural Journal.
Tech. in Landw.	Die Technik in der Landwirtschaft.
Tech. Mitt. Krupp	Technische Mitteilungen Krupp.
Tech. Phys. U.S.S.R.	Technical Physics of the U.S.S.R.
Tech. Publ. Tin Res. Conno.	Technical Publications of the International Tin Research and Development Council.
Tech. Rep. Tōhoku	Technology Reports of the Tōhoku Imperial University, Sendai, Japan.
Teer u. Bitumen	Teer und Bitumen.
Tekn. Tidsk.	Teknisk Tidskrift.
Textilber.	Melliand Textilberichte.
Tids. Kjemi	Tidsskrift for Kjemi og Bergvesen.
Tonind.-Ztg.	Tonindustrie-Zeitung.
Trans. Amer. Found. Assoc.	Transactions of the American Foundrymen's Association.
Trans. Amer. Inst. Chem. Eng.	Transactions of the American Institute of Chemical Engineers.
Trans. Amer. Inst. Metals	Transactions of the American Institution of Metals.
Trans. Amer. Inst. Min. Met. Eng.	Transactions of the American Institute of Mining and Metallurgical Engineers.
Trans. Amer. Soc. Mech. Eng.	Transactions of the American Society of Mechanical Engineers.
Trans. Amer. Soc. Met.	Transactions of the American Society of Metals.
Trans. Bose Res. Inst.	Transactions of the Bose Research Institute, Calcutta.
Trans. Ceram. Soc.	Transactions of the Ceramic Society.
Trans. Dokuchaiev Soil Inst.	Transactions of the Dokuchaiev Soil Institute.
Trans. Electrochem. Soc.	Transactions of the Electrochemical Society.
Trans. Faraday Soc.	Transactions of the Faraday Society.
Trans. Inst. Min. Eng.	Transactions of the Institution of Mining Engineers.
Trans. Inst. Min. Met.	Transactions of the Institution of Mining and Metallurgy.
Trans. Inst. Plast. Ind.	Transactions of the Institute of the Plastics Industry.
Trans. Inst. Rubber Ind.	Transactions of the Institution of the Rubber Industry.
Trans. Leningrad Ind. Res. Inst.	Transactions of the Leningrad Industrial Research Institute.
Trans. N. Eng. Inst. Min. Mech. Eng.	Transactions of the North of England Institute of Mining and Mechanical Engineers.
Trans. New Zealand Inst.	Transactions of the New Zealand Institute.
Trans. Nova Scotia Inst. Sci.	Transactions of the Nova Scotia Institute of Science.
Trans. Opt. Soc.	Transactions of the Optical Society.
Trans. Roy. Irish Acad.	Transactions of the Royal Irish Academy.
Trans. Roy. Soc. Canada	Transactions of the Royal Society of Canada.
Trans. Roy. Soc. Edin.	Transactions of the Royal Society of Edinburgh.
Trans. Roy. Soc. S. Africa.	Transactions of the Royal Society of South Africa.



ABBREVIATED TITLE.	JOURNAL.	ABBREVIATED TITLE.	JOURNAL.
Trans. Saratov Univ.	Transactions of the Saratov University (Gelehrte Notizen der Saratover Staats Universität).	Z. Fleisch-Milch-Hyg.	Zeitschrift für Fleisch- und Milch-Hygiene.
Trop. Agric.	Tropical Agriculturist (Ceylon).	Z. ges. Brauw.	Zeitschrift für das gesamte Brauwesen.
Trop. Agric. (Trinidad)	Tropical Agriculture (Trinidad)	Z. ges. exp. Med.	Zeitschrift für die gesamte experimentelle Medizin.
Tsch. Min. Mitt.	Mineralogische und Petrographische Mitteilungen (Zeitschrift für Kristallographie, Mineralogie, und Petrographie, Abteilung B).	Z. ges. Kälte-Ind.	Zeitschrift für die gesamte Kälte-Industrie.
U.S. Bur. Mines, Bull., Tech. Papers, and Rept. Invest.	United States Bureau of Mines, Bulletins, Technical Papers, and Reports of Investigations.	Z. ges. Naturwiss.	Zeitschrift für die gesamte Naturwissenschaft.
U.S. Bur. Plant Ind.	United States Bureau of Plant Industry.	Z. ges. Schiess- u. Sprengstoffw.	Zeitschrift für das gesamte Schiess- und Sprengstoffwesen.
U.S. Dept. Agric. Bull. (or Circ.)	United States Department of Agriculture Bulletins (or Circulars).	Z. Hyg.	Zeitschrift für Hygiene und Infektionskrankheiten.
U.S. Hyg. Labor. Bull.	United States Hygienic Laboratory Bulletins.	Z. Immunitätsforsch.	Zeitschrift für Immunitätsforschung und experimentelle Therapie.
U.S.P.	United States Patent.	Z. Instrumkde.	Zeitschrift für Instrumentenkunde.
U.S. Publ. Health Rep.	United States Public Health Reports.	Z. Krist.	Zeitschrift für Kristallographie.
Ukrain. Biochem. J.	Ukrainian Biochemical Journal.	Z. Metallk.	Zeitschrift für Metallkunde.
Ukrain. Chem. J.	Ukrainian Chemical Journal.	Z. öst. Ver. Gas-Wasserfach.	Zeitschrift des österreichischen Vereines von Gas- und Wasserfachmännern.
Union S. Africa Dept. Agric. Bulls.	Union of South Africa Department of Agriculture Bulletins.	Z. Parasitenk.	Zeitschrift für Parasitenkunde.
Univ. Illinois Bull.	University of Illinois Bulletins.	Z. Pflanz. Düng.	Zeitschrift für Pflanzenernährung, Düngung, und Bodenkunde ( <i>title now changed to</i> Bodenkunde und Pflanzenernährung).
Utah Agric. Coll. Exp. Stat. Bull.	Utah Agricultural College Experiment Station Bulletins.	Z. Pflanzenkr. Pflanzenschutz	Zeitschrift für Pflanzenkrankheiten (Pflanzenpathologie) und Pflanzenschutz.
V.D.I. Forschungsheft	Forschung auf dem Gebiete des Ingenieurwesens Forschungsheft.	Z. Physik	Zeitschrift für Physik.
Vedag Jahrb.	Vedag Jahrbuch.	Z. physikal. Chem.	Zeitschrift für physikalische Chemie.
Verfkroniek	Verfkroniek.	Z. physikal. chem. Unterr.	Zeitschrift für den physikalischen und chemischen Unterricht.
Verh. Geol. Reichsanst. Wien	Verhandlungen der Geologischen Reichsanstalt in Wien.	Z. physiol. Chem.	Hoppe-Seyler's Zeitschrift für physiologische Chemie.
Verh. Ges. deut. Naturforsch. Aertze	Verhandlungen der Gesellschaft deutscher Naturforscher und Aertze.	Z. pr. Geol.	Zeitschrift für praktische Geologie.
Vermont Agric. Exp. Sta. Bull.	Vermont Agricultural Experiment Station Bulletin.	Z. Spiritusind.	Zeitschrift für Spiritusindustrie.
Verro et Silicates Ind.	Verre et Silicates Industriels.	Z. tech. Phys.	Zeitschrift für technische Physik.
Věstn. Českoslov. Akad. Zemed.	Věstník Československé Akademie Zemedělské.	Z. Unters. Lebensm.	Zeitschrift für Untersuchung der Lebensmittel.
Vestn. Mikrobiol.	Vestnik Mikrobiologii Epidemiologii i Parazitologii.	Z. Ver. deut. Ing.	Zeitschrift Vereins deutscher Ingenieure.
Vet. Rec.	Veterinary Record.	Z. Ver. deuts. Ing. Verfahrenstech.	Zeitschrift des Vereins deutscher Ingenieure Beihefte Verfahrenstechnik.
Virginia (Blacksburg) Exp. Sta. Bull.	Virginia (Blacksburg) Experiment Station Bulletin.	Z. Vitaminforsch.	Zeitschrift für Vitaminforschung.
Virginia Truck Exp. Sta. Bull.	Virginia Truck Experiment Station Bulletin.	Z. Wirts. Zuckerind.	Zeitschrift der Wirtschaftsgruppe Zuckerindustrie (Verein der Deutschen Zucker-Industrie).
Wärme	Wärme.	Z. wiss. Biol.	Zeitschrift für wissenschaftliche Biologie.
Welsh J. Agric.	Welsh Journal of Agriculture.	Z. wiss. Mikrosk.	Zeitschrift für wissenschaftliche Mikroskopie und mikroskopische Technik.
Wiss. Veröff. Siemens-Werken	Wissenschaftliche Veröffentlichungen aus den Siemens-Werken.	Z. wiss. Phot.	Zeitschrift für wissenschaftliche Photographie, Photophysik und Photochemie.
Woch. Brau.	Wochenschrift für Brauerei.	Z. Zuchtung	Zeitschrift für Zuchtung.
World's Paper Tr. Rev.	World's Paper Trade Review.	Z. Zuckerind. Czecho-slov.	Zeitschrift für die Zuckerindustrie der Czechoslovakischen Republik.
World Power	World Power.	Zavod. Lab.	Zavodskaja Laboratorija.
Z. anal. Chem.	Zeitschrift für analytische Chemie.	Zellstoff u. Papier	Zellstoff und Papier.
Z. angew. Min.	Zeitschrift für angewandte Mineralogie.	Zement	Zement.
Z. anorg. Chem.	Zeitschrift für anorganische und allgemeine Chemie.	Zentr. Bakt.	Zentralblatt für Bakteriologie, Parasitenkunde und Infektionskrankheiten.
Z. Biol.	Zeitschrift für Biologie.	Zentr. Min.	Zentralblatt für Mineralogie, Geologie und Paläontologie.
Z. deut. Geol. Ges.	Zeitschrift der deutschen Geologischen Gesellschaft.	Zentr. Zuckerind.	Zentralblatt für Zuckerindustrie.
Z. Elektrochem.	Zeitschrift für Elektrochemie.		

# List of Patents Abstracted.

## BRITISH PATENTS.

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363,697	359	452,832	251	454,710	41	455,310	21	455,683	56	456,097	140	456,551	139
409,746	301	452,847	251	454,727	4	455,313	13	455,689	249	456,099	130	456,552	159
410,646	301	452,861	148	454,747	68	455,335	134	455,691	84	456,101	89	456,554	67
422,322	349	452,885	148	454,749	244	455,344	28	455,692	22	456,105	14	456,557	13
442,127	359	452,886	148	454,750	244	455,360	253	455,693	330	456,111	14	456,561	56
445,352	330	452,950	135	454,754	65	455,374	13	455,694	05	456,128	248	456,562	41
446,501	289	452,952	148	454,757	223	455,376	56	455,695	09	456,137	29	456,565	118
446,536	289	453,005	147	454,769	30	455,377	249	455,696	09	456,142	118	456,569	344
446,537	289	453,042	148	454,779	88	455,378	289	455,697	09	456,147	21	456,571	5
447,810	277	453,050	147	454,790	4	455,379	120	455,699	252	456,148	07	456,572	129
448,777	53	453,058	150	454,800	4	455,388	3	455,710	23	456,149	07	456,579	886
448,808	35	453,142	147	454,806	6	455,408	41	455,717	05	456,150	07	456,581	100
448,810	53	453,157	147	454,813	188	455,409	14	455,732	88	456,151	35	456,587	100
448,830	55	453,190	148	454,815	6	455,410	38	455,734	135	456,160	98	456,590	382
448,852	53	453,209	224	454,816	4	455,412	253	455,735	00	456,164	99	456,591	98
448,853	54	453,224	148	454,827	652	455,416	20	455,742	04	456,168	98	456,600	167
448,887	56	453,226	359	454,833	30	455,421	15	455,751	130	456,174	28	456,602	97
448,941	39	453,266	342	454,839	254	455,425	240	455,754	14	456,184	56	456,613	56
448,942	39	453,273	358	454,840	5	455,429	150	455,760	55	456,207	140	456,629	56
448,944	53	453,307	343	454,868	233	455,434	250	455,764	128	456,209	100	456,637	97
448,994	54	453,317	357	454,869	232	455,443	94	455,771	140	456,210	117	456,643	98
449,162	253	453,318	342	454,875	233	455,444	07	455,779	80	456,214	117	456,644	98
449,175	254	453,338	357	454,882	224	455,453	17	455,782	31	456,232	100	456,657	357
449,184	241	453,349	357	454,891	213	455,456	84	455,784	201	456,242	27	456,660	357
449,230	254	453,365	222	454,897	6	455,460	139	455,787	111	456,244	15	456,661	14
449,251	358	453,377	359	454,901	204	455,463	21	455,790	115	456,246	41	456,663	288
449,315	238	453,420	382	454,915	55	455,465	85	455,804	31	456,249	98	456,671	14
449,327	203	453,423	357	454,918	88	455,472	131	455,806	240	456,252	13	456,673	356
449,339	254	453,431	225	454,919	253	455,477	20	455,809	140	456,266	85	456,695	172
449,350	251	453,437	221	454,926	251	455,482	6	455,810	84	456,269	88	456,700	42
449,360	237	453,458	343	454,939	238	455,491	22	455,820	65	456,279	91	456,704	97
449,364	202	453,507	347	454,942	229	455,495	234	455,823	84	456,281	69	456,706	96
449,367	255	453,509	225	454,944	41	455,496	32	455,831	149	456,286	175	456,712	245
449,372	251	453,513	222	454,946	39	455,505	15	455,845	90	456,287	238	456,714	140
449,471	251	453,517	359	454,953	55	455,526	30	455,846	84	456,307	233	456,723	64
450,510	857	453,527	356	454,959	223	455,531	248	455,849	100	456,314	36	456,726	32
451,025	251	453,553	357	454,961	4	455,533	41	455,852	28	456,315	20	456,735	220
451,589	277	453,577	357	454,963	277	455,534	28	455,856	08	456,320	15	456,739	350
451,685	121	453,646	437	454,964	3	455,538	07	455,863	98	456,325	139	456,741	162
451,728	361	453,704	455	454,994	5	455,540	21	455,865	135	456,336	27	456,743	358
451,859	123	453,707	224	455,004	3	455,547	250	455,872	31	456,338	119	456,744	65
451,937	123	453,803	456	455,020	188	455,554	382	455,877	248	456,341	89	456,749	350
451,970	122	453,805	455	455,021	229	455,556	01	455,888	08	456,342	118	456,751	121
452,007	123	453,824	457	455,040	39	455,558	13	455,889	08	456,343	329	456,755	56
452,033	122	453,840	458	455,041	39	455,564	07	455,890	07	456,344	36	456,756	884
452,144	135	453,880	455	455,042	248	455,567	14	455,891	99	456,346	85	456,757	67
452,166	150	453,935	250	455,062	382	455,569	248	455,893	31	456,348	149	456,765	56
452,203	122	453,972	255	455,068	250	455,570	22	455,894	253	456,351	63	456,768	885
452,218	134	454,070	250	455,070	248	455,571	41	455,895	251	456,353	99	456,769	99
452,234	222	454,094	250	455,086	22	455,575	41	455,902	85	456,357	232	456,770	98
452,247	135	454,127	250	455,089	63	455,581	5	455,909	99	456,359	119	456,771	100
452,257	148	454,137	91	455,092	330	455,583	01	455,922	05	456,362	395	456,773	115
452,260	148	454,151	249	455,128	91	455,587	249	455,923	97	456,365	99	456,780	41
452,800	148	454,165	249	455,142	4	455,592	41	455,925	28	456,371	13	456,782	274
452,802	134	454,200	249	455,147	3	455,593	04	455,926	97	456,377	234	456,816	97
452,826	222	454,236	234	455,158	382	455,594	38	455,930	28	456,419	395	456,818	180
452,837	149	454,237	224	455,159	5	455,595	53	455,939	130	456,420	99	456,820	69
452,844	221	454,240	228	455,181	135	455,597	07	455,945	139	456,422	10	456,821	154
452,846	122	454,241	253	455,185	13	455,601	20	455,947	77	456,423	250	456,823	350
452,361	158	454,261	223	455,193	249	455,602	64	455,973	56	456,443	98	456,824	219
452,390	252	454,306	249	455,200	233	455,603	60	455,974	04	456,446	341	456,825	140
452,401	147	454,324	204	455,210	320	455,604	94	455,975	04	456,451	130	456,829	64
452,410	158	454,331	238	455,217	65	455,605	94	455,976	04	456,462	359	456,841	127
452,411	148	454,335	252	455,218	91	455,606	29	455,980	140	456,465	300	456,844	232
452,410	147	454,343	203	455,219	13	455,609	13	455,988	99	456,468	194	456,845	185
452,421	122	454,375	23	455,221	84	455,611	134	455,991	22	456,478	357	456,848	159
452,424	122	454,400	21	455,224	251	455,612	29	455,992	55	456,480	263	456,852	93
452,426	203	454,406	359	455,229	329	455,616	84	455,995	100	456,482	55	456,855	161
452,454	221	454,416	253	455,238	91	455,618	04	456,018	253	456,486	159	456,873	112
452,464	148	454,424	131	455,244	4	455,621	22	456,020	29	456,506	112	456,876	290
452,466	148	454,445	221	455,247	41	455,622	28	456,029	05	456,509	139	456,882	186
452,471	134	454,468	252	455,255	13	455,624	402	456,031	55	456,512	100	456,894	67
452,480	147	454,470	223	455,263	3	455,628	4	456,040	55	456,513	346	456,895	98
452,503	252	454,493	223	455,264	88	455,641	20	456,058	239	456,517	118	456,898	159
452,507	253	454,524	253	455,268	359	455,642	233	456,060	89	456,518	341	456,908	158
452,524	248	454,550	27	455,274	31	455,643	330	456,061	28	456,525	21	456,916	283
452,525	239	454,562	248	455,276	14	455,644	67	456,070	120	456,530	22	456,921	118
452,530	250	454,567	249	455,277	3	455,648	14	456,075	78	456,532	140	456,922	245
452,539	253	454,570	237	455,282	251	455,654	64	456,082	255	456,533	216	456,933	248
452,553	239	454,590	131	455,285	31	455,655	64	456,084	251	456,534	120	456,934	213
452,628	237	454,617	233	455,287	3	455,657	27	456,085	249	456,535	884	456,938	130
452,645	250	454,624	224	455,292	6	455,660	6	456,086	249	456,536	03	456,944	186
452,690	251	454,630	23	455,300	38	455,668	22	456,089	15	456,544	343	456,952	215
452,720	222	454,657	229	455,306	30	455,674	67	456,091	97	456,547	21	456,955	209

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456,057	882	457,471	238	457,902	457	458,374	367	458,808	221	459,234	204	459,618	305
456,058	115	457,472	108	457,910	112	458,385	450	458,813	371	459,237	305	459,623	305
456,073	128	457,475	241	457,912	228	458,391	214	458,814	334	459,238	343	459,624	322
456,074	210	457,477	220	457,923	148	458,393	309	458,815	335	459,247	458	459,634	501
456,085	140	457,478	197	457,924	303	458,396	245	458,816	370	459,250	255	459,635	270
456,094	180	457,481	121	457,933	220	458,399	285	458,817	321	459,257	203	459,642	303
456,099	97	457,482	198	457,934	200	458,400	204	458,819	334	459,263	459	459,657	304
457,003	249	457,484	358	457,938	456	458,403	398	458,821	267	459,264	459	459,660	885
457,009	259	457,486	150	457,942	232	458,405	888	458,828	883	459,268	318	459,662	307
457,012	282	457,488	140	457,957	300	458,407	241	458,829	309	459,270	211	459,665	395
457,024	139	457,494	158	457,959	112	458,414	335	458,832	309	459,277	303	459,669	460
457,031	128	457,498	207	457,960	306	458,416	455	458,839	370	459,278	303	459,673	349
457,035	99	457,513	119	457,963	347	458,417	883	458,843	222	459,286	343	459,674	308
457,036	883	457,523	142	457,965	228	458,421	293	458,854	358	459,288	305	459,682	382
457,037	252	457,524	123	457,971	113	458,423	883	458,856	210	459,294	420	459,692	308
457,047	884	457,525	883	457,974	309	458,424	455	458,857	207	459,298	264	459,708	279
457,055	886	457,526	888	457,975	153	458,427	204	458,863	334	459,301	303	459,711	409
457,058	99	457,534	878	457,984	220	458,428	204	458,872	305	459,309	215	459,715	458
457,076	158	457,535	119	457,986	159	458,437	244	458,874	506	459,310	217	459,716	317
457,077	96	457,537	241	457,987	159	458,447	947	458,877	233	459,311	319	459,719	826
457,081	130	457,538	128	457,995	458	458,452	204	458,881	346	459,312	472	459,720	371
457,082	113	457,539	207	457,997	114	458,454	215	458,882	381	459,314	319	459,721	506
457,088	185	457,541	107	458,000	118	458,457	204	458,885	201	459,315	301	459,722	322
457,093	147	457,552	301	458,002	362	458,458	204	458,892	239	459,318	378	459,725	430
457,106	885	457,555	225	458,003	244	458,462	303	458,893	402	459,319	456	459,733	374
457,115	194	457,565	456	458,022	208	458,467	220	458,894	207	459,320	262	459,743	457
457,119	215	457,588	135	458,024	172	458,468	264	458,904	265	459,323	255	459,746	326
457,120	99	457,596	127	458,025	455	458,477	220	458,908	335	459,332	304	459,747	303
457,126	150	457,603	186	458,028	267	458,478	238	458,909	460	459,333	330	459,749	502
457,133	252	457,605	454	458,033	215	458,486	207	458,910	333	459,334	469	459,752	302
457,134	127	457,621	210	458,035	208	458,487	303	458,913	307	459,335	255	459,755	398
457,139	113	457,623	349	458,038	220	458,491	232	458,919	334	459,342	216	459,756	804
457,140	127	457,624	153	458,039	882	458,511	216	458,922	270	459,344	370	459,759	393
457,143	140	457,636	455	458,042	241	458,510	264	458,932	288	459,353	420	459,760	431
457,155	97	457,637	158	458,048	361	458,520	362	458,935	337	459,356	401	459,763	465
457,157	97	457,642	455	458,050	295	458,534	361	458,940	357	459,360	468	459,766	899
457,158	200	457,654	334	458,061	117	458,535	228	458,950	357	459,366	458	459,770	886
457,163	237	457,659	233	458,062	346	458,537	349	458,961	333	459,367	458	459,771	306
457,171	128	457,671	302	458,065	458	458,547	303	458,963	381	459,372	307	459,778	347
457,174	118	457,676	135	458,071	303	458,549	359	458,964	210	459,385	305	459,780	888
457,178	120	457,679	221	458,073	136	458,557	208	458,975	301	459,388	433	459,781	429
457,181	112	457,687	221	458,078	361	458,559	285	458,976	301	459,390	456	459,788	460
457,186	885	457,698	178	458,085	150	458,570	208	458,978	229	459,401	303	459,789	323
457,197	108	457,699	343	458,089	454	458,572	238	458,979	337	459,406	303	459,790	428
457,198	112	457,701	334	458,093	458	458,573	218	458,987	301	459,408	363	459,791	327
457,201	107	457,702	334	458,094	266	458,581	300	458,995	207	459,409	304	459,796	420
457,211	112	457,707	349	458,098	228	458,582	390	459,011	302	459,410	433	459,797	890
457,244	255	457,708	189	458,099	886	458,583	307	459,017	359	459,415	318	459,815	302
457,251	112	457,717	391	458,100	117	458,590	303	459,025	302	459,418	344	459,816	460
457,253	149	457,718	232	458,102	217	458,594	362	459,027	294	459,420	455	459,817	303
457,278	189	457,719	437	458,105	115	458,595	228	459,039	214	459,431	456	459,819	429
457,282	231	457,731	301	458,115	241	458,598	333	459,040	367	459,432	457	459,820	429
457,283	232	457,751	84	458,120	161	458,597	228	459,043	300	459,434	206	459,822	317
457,285	161	457,752	158	458,130	161	458,598	358	459,045	266	459,435	266	459,823	456
457,291	343	457,756	398	458,131	244	458,600	367	459,048	300	459,436	343	459,829	390
457,292	198	457,760	456	458,134	458	458,601	259	459,053	225	459,441	330	459,831	837
457,298	197	457,762	200	458,137	356	458,603	362	459,056	263	459,442	305	459,838	349
457,301	198	457,763	232	458,152	306	458,608	262	459,058	237	459,445	304	459,839	279
457,310	161	457,764	455	458,160	113	458,620	362	459,065	346	459,446	458	459,848	456
457,311	161	457,768	301	458,162	229	458,622	262	459,078	212	459,453	219	459,850	429
457,315	343	457,769	291	458,163	455	458,626	326	459,079	212	459,456	302	459,854	457
457,317	150	457,770	361	458,166	886	458,628	300	459,080	212	459,457	233	459,856	301
457,320	198	457,774	454	458,170	309	458,629	397	459,081	212	459,458	428	459,857	301
457,324	198	457,777	300	458,177	398	458,635	255	459,089	300	459,459	306	459,859	459
457,326	189	457,778	300	458,179	274	458,637	230	459,099	361	459,462	393	459,878	470
457,328	128	457,780	457	458,182	301	458,639	264	459,103	357	459,464	266	459,881	327
457,333	242	457,781	158	458,185	290	458,640	218	459,108	215	459,467	291	459,882	325
457,335	203	457,782	301	458,200	301	458,642	261	459,117	212	459,468	307	459,886	347
457,341	234	457,783	188	458,202	306	458,643	223	459,118	306	459,471	310	459,887	459
457,343	344	457,784	308	458,216	304	458,644	295	459,119	293	459,488	289	459,890	327
457,345	202	457,785	188	458,236	216	458,665	295	459,120	304	459,503	304	459,891	887
457,348	186	457,786	224	458,238	228	458,667	207	459,122	333	459,508	420	459,894	882
457,349	88	457,787	221	458,240	239	458,668	363	459,123	333	459,509	402	459,908	501
457,350	157	457,789	186	458,256	294	458,669	207	459,124	333	459,514	470	459,912	458
457,352	197	457,795	63	458,257	361	458,670	200	459,125	230	459,515	468	459,920	328
457,358	250	457,798	264	458,261	302	458,679	358	459,126	305	459,524	291	459,922	363
457,371	140	457,798	232	458,266	244	458,680	295	459,130	358	459,531	420	459,923	320
457,378	140	457,801	303	458,267	455	458,684	234	459,131	290	459,537	215	459,925	455
457,384	231	457,806	362	458,268	220	458,692	298	459,134	340	459,538	291	459,942	393
457,385	188	457,810	259	458,298	301	458,699	343	459,142	210	459,539	255	459,945	460
457,386	223	457,824	287	458,304	294	458,703	367	459,145	224	459,540	465	459,947	470
457,387	208	457,825	221	458,305	262	458,708	244	459,149	473	459,541	379	459,948	374
457,391	153	457,826	458	458,306	323	458,723	358	459,153	363	459,542	305	459,949	884
457,396	218	457,828	172	458,310	228	458,728	305	459,164	333	459,544	468	459,950	317</

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460,016	358	460,481	395	460,028	356	461,343	495	461,707	413	462,227	764	462,597	557
460,017	309	460,494	300	460,031	459	461,350	691	461,709	437	462,230	434	462,599	433
460,021	304	460,498	322	460,039	468	461,352	471	461,802	512	462,232	501	462,601	531
460,026	429	460,509	317	460,041	356	461,354	418	461,808	417	462,233	531	462,606	551
460,027	337	460,515	361	460,042	367	461,357	421	461,809	509	462,238	764	462,613	474
460,029	457	460,517	375	460,055	334	461,366	411	461,810	550	462,239	422	462,626	933
460,059	308	460,521	378	460,056	800	461,367	471	461,813	411	462,240	689	462,627	474
460,060	362	460,523	338	460,061	337	461,370	460	461,825	429	462,242	433	462,629	422
460,061	430	460,526	443	460,062	319	461,372	431	461,827	472	462,244	604	462,630	411
460,072	456	460,528	422	460,063	401	461,373	409	461,836	401	462,245	580	462,632	907
460,079	337	460,532	306	460,066	317	461,392	411	461,837	557	462,248	095	462,637	095
460,081	303	460,543	338	460,069	457	461,402	410	461,845	091	462,249	500	462,642	512
460,082	428	460,548	362	460,072	391	461,405	401	461,840	401	462,250	430	462,650	880
460,098	308	460,554	318	460,073	412	461,408	471	461,847	433	462,251	556	462,653	978
460,108	307	460,561	885	460,077	308	461,411	495	461,849	437	462,252	092	462,655	732
460,111	337	460,565	334	460,081	305	461,418	092	461,853	587	462,254	431	462,658	763
460,113	458	460,566	329	460,082	409	461,422	401	461,866	1024	462,266	510	462,659	886
460,116	495	460,568	398	460,001	410	461,425	530	461,869	482	462,268	409	462,664	419
460,137	392	460,569	398	461,006	502	461,430	530	461,871	437	462,269	092	462,665	405
460,138	455	460,575	337	461,011	441	461,432	532	461,872	092	462,274	468	462,674	531
460,139	468	460,576	396	461,023	401	461,433	495	461,875	542	462,278	409	462,675	532
460,140	338	460,578	327	461,040	401	461,436	428	461,870	020	462,283	428	462,681	420
460,141	500	460,580	395	461,042	431	461,437	442	461,883	761	462,284	090	462,683	583
460,143	325	460,583	413	461,051	328	461,438	1027	461,884	883	462,285	090	462,690	532
460,144	306	460,586	393	461,054	421	461,439	401	461,885	763	462,286	501	462,691	023
460,145	326	460,587	301	461,059	779	461,450	461	461,888	067	462,290	775	462,692	405
460,146	326	460,588	391	461,080	326	461,457	401	461,890	501	462,295	466	462,693	886
460,147	888	460,590	334	461,088	441	461,458	442	461,891	501	462,296	704	462,694	886
460,151	319	460,594	889	461,098	091	461,461	401	461,893	501	462,304	551	462,695	510
460,152	888	460,596	402	461,103	401	461,464	482	461,894	419	462,306	434	462,696	551
460,161	306	460,598	430	461,104	092	461,475	1199	461,895	498	462,307	412	462,697	551
460,164	374	460,599	395	461,107	092	461,480	441	461,896	498	462,310	093	462,698	551
460,177	461	460,610	395	461,108	429	461,495	468	461,899	583	462,311	512	462,699	421
460,183	457	460,615	458	461,109	370	461,497	409	461,913	557	462,316	482	462,703	509
460,193	392	460,620	456	461,111	461	461,503	409	461,916	512	462,319	418	462,705	510
460,201	337	460,627	887	461,112	401	461,507	506	461,936	583	462,321	543	462,706	937
460,210	346	460,629	393	461,115	692	461,508	471	461,948	090	462,332	513	462,710	510
460,217	304	460,630	392	461,117	668	461,535	465	461,949	421	462,335	774	462,712	1191
460,224	862	460,631	338	461,126	093	461,552	690	461,957	529	462,337	410	462,713	1191
460,226	347	460,635	306	461,127	437	461,555	433	461,958	690	462,339	512	462,714	512
460,230	441	460,635	395	461,130	778	461,558	431	461,960	551	462,348	551	462,715	531
460,232	338	460,656	461	461,131	443	461,559	500	461,963	539	462,349	416	462,719	531
460,239	471	460,657	304	461,137	474	461,564	503	461,965	883	462,350	487	462,720	650
460,240	303	460,658	461	461,140	324	461,570	672	461,972	417	462,353	502	462,724	433
460,241	471	460,659	322	461,145	401	461,581	401	461,976	511	462,356	582	462,726	537
460,242	349	460,668	302	461,149	401	461,589	668	461,979	417	462,363	532	462,730	731
460,248	329	460,676	459	461,165	402	461,592	430	461,981	556	462,380	931	462,733	583
460,249	328	460,697	391	461,173	370	461,593	430	461,991	556	462,383	422	462,734	672
460,250	328	460,710	326	461,175	468	461,597	666	461,997	017	462,384	899	462,754	537
460,255	328	460,711	337	461,179	434	461,601	402	461,998	886	462,386	761	462,758	409
460,258	349	460,717	384	461,180	402	461,604	412	462,000	503	462,392	512	462,760	703
460,263	304	460,720	326	461,181	538	461,614	432	462,005	434	462,408	510	462,765	020
460,273	304	460,725	885	461,184	495	461,615	495	462,008	434	462,433	008	462,767	583
460,275	470	460,736	349	461,185	421	461,623	503	462,010	512	462,439	410	462,781	073
460,276	883	460,742	303	461,187	090	461,628	506	462,011	434	462,440	072	462,783	1194
460,279	350	460,744	334	461,189	421	461,631	472	462,012	511	462,442	037	462,791	1240
460,281	437	460,746	412	461,196	506	461,632	469	462,021	501	462,446	509	462,792	512
460,282	328	460,747	325	461,200	496	461,635	470	462,026	470	462,448	474	462,812	511
460,306	334	460,756	362	461,201	441	461,636	402	462,027	583	462,450	937	462,815	461
460,309	302	460,758	324	461,202	499	461,641	417	462,028	496	462,456	1191	462,820	1138
460,312	302	460,761	409	461,210	402	461,648	503	462,030	434	462,462	583	462,822	503
460,330	437	460,766	300	461,214	899	461,649	471	462,048	1090	462,463	511	462,824	090
460,341	305	460,772	375	461,215	476	461,650	471	462,073	429	462,465	420	462,828	907
460,342	305	460,782	883	461,216	374	461,655	443	462,089	409	462,468	419	462,829	557
460,345	413	460,785	347	461,217	438	461,662	418	462,094	506	462,470	582	462,836	557
460,347	460	460,795	308	461,219	431	461,665	438	462,101	469	462,478	409	462,837	935
460,350	373	460,800	301	461,220	325	461,666	1197	462,111	411	462,484	557	462,838	557
460,351	342	460,801	411	461,221	432	461,668	1137	462,112	556	462,485	583	462,840	703
460,362	304	460,811	391	461,222	091	461,670	433	462,114	495	462,487	417	462,842	510
460,366	349	460,812	430	461,224	429	461,671	412	462,131	436	462,492	474	462,857	510
460,371	458	460,814	301	461,227	401	461,674	067	462,132	437	462,494	510	462,871	536
460,372	326	460,818	338	461,236	471	461,675	419	462,135	410	462,499	520	462,881	418
460,378	885	460,822	356	461,237	527	461,676	420	462,140	845	462,500	582	462,890	986
460,379	412	460,834	307	461,240	441	461,679	474	462,145	509	462,508	536	462,897	977
460,384	887	460,835	398	461,245	420	461,680	468	462,146	413	462,511	591	462,899	1197
460,385	884	460,839	367	461,249	692	461,681	460	462,149	587	462,512	1190	462,901	421
460,386	347	460,840	459	461,251	690	461,684	441	462,151	511	462,514	506	462,903	525
460,387	393	460,850	461	461,252	667	461,685	476	462,153	510	462,516	409	462,906	418
460,389	327	460,854	319	461,262	441	461,688	1137	462,158	510	462,522	583	462,908	511
460,394	317	460,857	779	461,267	889	461,715	521	462,160	511	462,528	410	462,912	583
460,399	308	460,858	329	461,268	471	461,726	510	462,165	470	462,531	907	462,913	882
460,405	431	460,862	326	461,269	495	461,730	430	462,169	525	462,535	531	462,924	701
460,409	303	460,867	303	461,270	468	461,733	582	462,170	727	462,545	582	462,933	410
460,410	438	460,875	362	461,271	471	461,739	511	462,171	512	462,548	8		

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462,981	544	463,406	677	463,901	932	464,337	643	464,824	1071	465,291	730	465,766	916
462,986	977	463,407	773	463,905	1161	464,356	1230	464,834	1201	465,298	652	465,797	1376
462,988	700	463,419	634	463,908	727	464,367	1072	464,836	1242	465,299	803	465,802	855
462,998	900	463,420	527	463,922	900	464,370	1201	464,838	1192	465,310	730	465,803	1382
463,024	934	463,427	623	463,927	677	464,372	986	464,843	1190	465,313	1342	465,804	898
463,035	981	463,428	520	463,932	1160	464,388	620	464,847	633	465,318	677	465,823	845
463,036	528	463,430	673	463,934	815	464,393	645	464,848	620	465,320	644	465,825	1165
463,037	626	463,432	593	463,936	621	464,395	587	464,850	635	465,323	934	465,831	856
463,042	1031	463,433	813	463,937	933	464,396	620	464,857	968	465,331	730	465,833	855
463,043	899	463,434	934	463,942	519	464,397	620	464,859	650	465,335	739	465,841	1224
463,045	529	463,438	910	463,949	672	464,398	732	464,860	1197	465,337	1231	465,848	758
463,046	882	463,439	910	463,955	775	464,401	694	464,864	677	465,338	935	465,873	1373
463,050	551	463,444	543	463,959	649	464,403	630	464,882	643	465,343	732	465,875	775
463,051	551	463,453	783	463,961	519	464,406	952	464,884	657	465,345	932	465,884	678
463,053	703	463,456	530	463,962	525	464,412	1239	464,902	850	465,346	932	465,885	760
463,055	607	463,458	626	463,966	909	464,425	1070	464,905	952	465,348	1375	465,886	842
463,056	1190	463,461	633	463,969	816	464,427	525	464,917	1070	465,352	643	465,889	703
463,060	609	463,464	617	463,970	524	464,433	635	464,921	603	465,357	741	465,897	857
463,061	582	463,468	645	463,982	694	464,436	1243	464,940	635	465,361	620	465,902	762
463,062	882	463,471	635	463,990	850	464,438	1072	464,944	634	465,366	933	465,912	1375
463,065	411	463,472	775	463,991	760	464,447	694	464,951	640	465,369	739	465,914	842
463,067	551	463,479	633	463,993	635	464,454	632	464,952	649	465,378	643	465,916	1225
463,074	1192	463,481	773	464,000	579	464,458	626	464,957	648	465,382	738	465,923	937
463,077	511	463,503	632	464,001	636	464,463	603	464,963	1210	465,404	738	465,927	1160
463,079	900	463,504	695	464,004	630	464,464	603	464,964	634	465,411	1324	465,931	914
463,080	509	463,511	935	464,005	935	464,462	1070	464,965	1190	465,412	1374	465,936	857
463,082	510	463,515	528	464,006	621	464,461	602	464,967	1343	465,413	645	465,939	775
463,085	510	463,516	783	464,007	631	464,503	1041	464,972	1197	465,421	933	465,942	856
463,092	908	463,544	604	464,020	933	464,511	603	464,978	1240	465,427	643	465,949	1273
463,094	511	463,545	543	464,021	617	464,519	1072	464,981	1322	465,428	643	465,955	703
463,097	582	463,548	773	464,026	815	464,520	1072	464,982	1072	465,429	643	465,957	762
463,113	511	463,551	908	464,030	934	464,521	1197	464,989	643	465,438	742	465,959	1169
463,116	900	463,552	583	464,032	519	464,526	1235	464,997	643	465,450	645	465,960	842
463,122	910	463,559	527	464,033	933	464,527	700	465,023	636	465,467	648	465,973	1150
463,132	932	463,560	845	464,034	818	464,530	652	465,024	647	465,478	739	465,982	813
463,137	1273	463,567	772	464,038	532	464,533	850	465,028	1323	465,484	650	465,983	759
463,138	527	463,569	529	464,040	908	464,542	603	465,038	651	465,488	742	465,993	1374
463,142	1276	463,572	932	464,047	1207	464,546	729	465,040	653	465,497	691	465,994	841
463,145	935	463,575	727	464,050	1192	464,562	644	465,042	1336	465,500	631	465,995	1158
463,160	950	463,588	783	464,053	700	464,571	626	465,043	857	465,516	856	465,999	910
463,163	620	463,589	814	464,054	527	464,573	636	465,044	658	465,520	812	466,005	1159
463,166	1243	463,590	814	464,055	520	464,596	1070	465,045	1231	465,521	1332	466,007	761
463,176	950	463,602	519	464,056	1376	464,604	1145	465,047	643	465,522	1324	466,010	1226
463,184	1203	463,614	814	464,057	672	464,613	732	465,048	952	465,526	1203	466,015	775
463,187	1242	463,624	587	464,063	635	464,618	677	465,050	1210	465,533	704	466,016	1246
463,191	510	463,633	776	464,084	1202	464,631	629	465,056	630	465,539	1053	466,023	1373
463,192	532	463,642	583	464,095	932	464,632	1073	465,067	643	465,546	1368	466,027	1324
463,194	949	463,644	539	464,100	617	464,636	694	465,070	669	465,547	1369	466,029	1273
463,200	512	463,645	532	464,101	1375	464,638	1242	465,077	1207	465,548	644	466,035	856
463,213	511	463,646	527	464,106	526	464,642	733	465,078	1072	465,553	1203	466,037	914
463,216	933	463,647	621	464,107	1192	464,644	645	465,085	672	465,554	1323	466,042	1375
463,217	520	463,663	907	464,110	538	464,650	633	465,089	694	465,555	1325	466,048	1226
463,218	520	463,669	532	464,112	983	464,653	644	465,090	1278	465,556	1325	466,049	914
463,220	730	463,678	783	464,115	523	464,655	815	465,093	644	465,574	1203	466,064	1332
463,224	984	463,685	910	464,116	536	464,656	1070	465,097	1072	465,585	856	466,066	757
463,226	510	463,688	813	464,120	859	464,657	650	465,099	643	465,589	644	466,067	1159
463,230	801	463,698	621	464,127	720	464,659	1197	465,105	652	465,591	1225	466,075	1165
463,244	523	463,703	633	464,128	673	464,660	651	465,106	662	465,594	1226	466,090	1376
463,245	1231	463,710	932	464,134	635	464,661	644	465,111	1236	465,598	616	466,097	764
463,246	509	463,717	932	464,174	1379	464,662	720	465,123	1072	465,601	1331	466,098	1323
463,248	1380	463,718	831	464,175	644	464,667	668	465,125	1277	465,603	758	466,099	774
463,258	931	463,719	831	464,176	1240	464,671	648	465,126	632	465,605	1202	466,105	978
463,261	934	463,720	831	464,178	631	464,673	889	465,134	1324	465,606	774	466,106	978
463,262	518	463,721	510	464,180	727	464,675	1072	465,136	603	465,614	858	466,107	978
463,263	519	463,725	1243	464,182	1227	464,678	1071	465,137	1075	465,622	1228	466,109	856
463,282	523	463,727	634	464,191	1071	464,688	695	465,138	652	465,623	1228	466,112	1328
463,290	800	463,742	520	464,192	695	464,690	1193	465,140	662	465,644	1202	466,120	856
463,291	509	463,746	935	464,204	1342	464,694	631	465,142	643	465,645	1375	466,126	1227
463,295	512	463,763	520	464,211	603	464,697	1072	465,148	701	465,661	1332	466,127	762
463,300	539	463,764	1241	464,237	720	464,706	1201	465,153	727	465,662	758	466,134	757
463,305	532	463,770	634	464,240	1242	464,711	677	465,154	673	465,668	757	466,135	1247
463,306	520	463,775	932	464,242	523	464,720	676	465,157	647	465,674	704	466,157	774
463,311	932	463,780	815	464,245	633	464,727	1072	465,159	635	465,688	808	466,158	979
463,314	1207	463,787	935	464,246	633	464,731	677	465,166	663	465,690	856	466,159	1372
463,317	535	463,790	934	464,247	633	464,732	701	465,167	701	465,692	1118	466,166	1167
463,321	1207	463,791	520	464,248	986	464,749	1071	465,174	653	465,701	1323	466,170	1374
463,323	536	463,792	519	464,252	1071	464,752	650	465,183	647	465,704	645	466,171	776
463,324	934	463,794	634	464,271	620	464,753	645	465,196	739	465,705	1325	466,172	1328
463,328	520	463,804	1203	464,273	645	464,755	720	465,199	649	465,708	761	466,173	1373
463,333	520	463,810	631	464,274	605	464,756	662	465,200	650	465,719	642	466,174	1246
463,335	672	463,811	908	464,275	632	464,757	732	465,203	1373	465,727	937	466,178	1330
463,337	632	463,826	935	464,276	1312	464,758	727	465,204	739	465,737	1364	466,183	843
463,338	812	463,828	760	464,280	614	464,762	700	465,209	1245	465,738	765		

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466,254	803	466,705	779	467,058	1227	467,480	1332	467,934	1026	468,683	1015	469,201	1173
466,262	1053	466,707	842	467,075	1201	467,481	877	467,998	1176	468,695	995	469,205	1282
466,268	880	466,708	1009	467,078	1076	467,482	930	468,001	1361	468,707	1013	469,231	1148
466,269	880	466,710	1277	467,079	994	467,483	1361	468,005	1038	468,709	1009	469,241	1008
466,270	1022	466,714	763	467,080	842	467,484	1361	468,006	997	468,716	996	469,244	1360
466,273	800	466,721	1336	467,081	813	467,491	1374	468,016	1170	468,729	1011	469,269	1240
466,284	1226	466,723	761	467,083	1092	467,492	946	468,019	1075	468,741	1011	469,290	1361
466,290	984	466,730	857	467,084	946	467,493	1009	468,025	1023	468,746	1089	469,299	1207
466,294	743	466,731	1012	467,085	889	467,500	1324	468,037	1023	468,750	1391	469,308	1147
466,298	899	466,734	775	467,087	984	467,501	1345	468,039	991	468,751	1041	469,318	1181
466,299	984	466,737	1009	467,088	1090	467,510	947	468,041	997	468,753	1223	469,319	1169
466,313	1243	466,741	1374	467,090	756	467,517	1300	468,043	889	468,754	1009	469,320	1146
466,310	878	466,743	895	467,093	890	467,529	1324	468,050	991	468,755	1031	469,323	1272
466,320	1280	466,749	1409	467,098	776	467,531	1379	468,081	1015	468,757	1225	469,324	1272
466,321	755	466,751	950	467,107	981	467,543	908	468,084	996	468,760	1403	469,325	1145
466,326	1193	466,762	1226	467,110	983	467,544	986	468,093	997	468,780	1410	469,328	1359
466,330	754	466,763	1228	467,111	1343	467,549	885	468,105	1015	468,785	1025	469,332	1172
466,344	1022	466,772	774	467,112	1059	467,553	856	468,123	1135	468,791	1409	469,335	1268
466,345	1022	466,778	1409	467,113	1343	467,555	1375	468,145	993	468,799	978	469,338	1148
466,346	1022	466,782	1225	467,114	994	467,558	1331	468,154	1332	468,812	1130	469,339	1144
466,347	740	466,795	1337	467,117	754	467,559	877	468,157	1005	468,819	992	469,340	1230
466,352	1227	466,797	1053	467,118	1070	467,561	1009	468,163	1225	468,829	992	469,347	1361
466,356	979	466,799	762	467,123	1092	467,564	856	468,177	1225	468,830	1394	469,352	1330
466,358	879	466,801	850	467,126	1201	467,571	1315	468,188	1025	468,832	1282	469,361	1361
466,368	741	466,802	895	467,134	994	467,572	1360	468,189	1041	468,833	1410	469,367	1145
466,374	739	466,803	776	467,139	1337	467,575	1360	468,190	1140	468,840	1027	469,371	1173
466,375	739	466,813	843	467,145	983	467,576	1372	468,198	995	468,841	995	469,377	1300
466,376	1230	466,814	759	467,147	754	467,581	1010	468,212	993	468,842	997	469,383	1230
466,382	742	466,816	1372	467,152	1225	467,598	1330	468,214	1029	468,848	1410	469,388	1282
466,384	1227	466,817	775	467,155	1228	467,602	884	468,215	992	468,854	997	469,390	1183
466,389	1224	466,841	1328	467,157	887	467,607	1342	468,216	1054	468,863	1041	469,395	1012
466,390	803	466,846	774	467,159	1225	467,617	1011	468,218	1021	468,865	991	469,399	1149
466,397	850	466,847	1375	467,160	895	467,618	1396	468,224	997	468,872	1203	469,400	1207
466,401	1228	466,849	1227	467,161	980	467,623	977	468,226	1023	468,879	993	469,406	1150
466,402	1330	466,853	759	467,162	1226	467,631	981	468,231	1108	468,882	1226	469,411	1147
466,416	757	466,856	895	467,166	1331	467,635	857	468,250	1228	468,883	990	469,421	1169
466,417	758	466,862	857	467,167	946	467,644	910	468,260	1008	468,887	991	469,425	1148
466,421	1240	466,879	983	467,173	1328	467,650	886	468,276	1009	468,890	1021	469,430	1273
466,429	1053	466,882	1083	467,176	990	467,662	899	468,283	1013	468,903	1225	469,433	1379
466,437	783	466,884	1092	467,183	887	467,663	1361	468,287	990	468,910	1379	469,434	1173
466,439	758	466,885	1092	467,190	1076	467,676	1360	468,292	1031	468,911	995	469,435	1013
466,447	1332	466,886	856	467,196	992	467,678	978	468,293	991	468,921	1019	469,437	1361
466,480	1375	466,890	759	467,202	1092	467,692	1075	468,298	995	468,926	1393	469,438	1361
466,482	1207	466,891	759	467,208	991	467,696	1074	468,328	990	468,930	996	469,442	1359
466,483	754	466,896	981	467,209	1201	467,700	914	468,337	1229	468,940	1406	469,443	1183
466,485	788	466,898	946	467,213	1324	467,701	1042	468,341	1057	468,946	1410	469,447	1273
466,489	1225	466,902	1226	467,228	758	467,706	994	468,357	996	468,948	1227	469,449	1182
466,490	1373	466,903	1226	467,234	813	467,719	874	468,362	1041	468,951	1225	469,491	1180
466,496	1192	466,904	1225	467,237	992	467,744	991	468,366	1225	468,955	1008	469,494	1147
466,503	802	466,910	757	467,240	1140	467,757	872	468,369	1080	468,956	1024	469,518	1180
466,504	877	466,919	1202	467,243	1075	467,770	1030	468,375	1024	468,972	1010	469,526	1270
466,505	842	466,920	1057	467,244	878	467,790	1270	468,387	1022	468,980	991	469,537	1181
466,509	757	466,921	993	467,259	1362	467,797	1362	468,399	1023	468,983	1008	469,539	1282
466,510	1015	466,926	1326	467,267	1392	467,803	1337	468,405	1008	468,985	1013	469,541	1177
466,511	1038	466,934	1093	467,274	880	467,805	910	468,407	993	468,990	1396	469,542	1148
466,514	739	466,941	1202	467,276	935	467,806	1238	468,412	1009	468,997	1074	469,548	1174
466,517	978	466,946	1074	467,298	910	467,815	1028	468,416	1031	469,011	1405	469,549	1409
466,519	742	466,949	1228	467,300	855	467,816	946	468,418	1009	469,016	1030	469,551	1193
466,524	754	466,951	850	467,313	984	467,817	946	468,419	1011	469,019	1129	469,562	1181
466,534	1227	466,955	991	467,317	1362	467,820	1075	468,433	992	469,022	1256	469,573	1162
466,535	1331	466,957	762	467,321	1300	467,823	1075	468,434	1011	469,027	1228	469,578	1197
466,548	841	466,962	995	467,323	1363	467,824	1178	468,435	1380	469,036	1010	469,604	1276
466,550	1192	466,963	1083	467,328	877	467,828	1074	468,447	1019	469,044	1014	469,633	1177
466,555	843	466,964	993	467,329	1009	467,831	1336	468,457	992	469,048	1014	469,638	1184
466,557	1375	466,968	887	467,336	1361	467,832	997	468,470	996	469,051	1019	469,642	1175
466,558	739	466,970	1202	467,342	895	467,839	1360	468,488	1014	469,055	1405	469,646	1181
466,559	1224	466,971	993	467,349	856	467,843	1336	468,496	1231	469,056	1201	469,660	1179
466,560	799	466,972	1227	467,351	986	467,844	991	468,497	1148	469,058	1117	469,668	1206
466,562	1331	466,976	754	467,358	1359	467,853	872	468,503	1135	469,059	995	469,747	1146
466,563	803	466,977	754	467,361	1331	467,863	994	468,508	1411	469,060	1274	469,748	1184
466,569	759	466,978	754	467,362	1342	467,870	996	468,509	1410	469,061	1202	469,760	1228
466,586	1226	466,979	754	467,368	1011	467,871	992	468,518	1228	469,063	990	469,763	1184
466,587	1226	466,980	754	467,370	1404	467,873	1360	468,523	1041	469,066	1014	469,764	1227
466,596	1368	466,983	996	467,373	914	467,874	992	468,531	1053	469,068	992	469,788	1144
466,598	1373	466,996	756	467,376	980	467,875	947	468,553	990	469,069	996	469,789	1108
466,601	774	466,997	993	467,378	1360	467,885	1075	468,560	1410	469,080	1023	469,801	1379
466,603	857	466,998	994	467,380	983	467,889	996	468,582	1115	469,081	1027	469,807	1144
466,609	1300	467,001	1227	467,381	909	467,895	1360	468,586	1379	469,087	994	469,808	1147
466,619	1015	467,005	983	467,395	1362	467,898	1074	468,597	1026	469,097	1148	469,820	1239
466,625	1277	467,007	996	467,402	946	467,899	946	468,599	993	469,101	1011	469,843	1196
466,626	1277	467,019	1227	467,408	986	467,900	1021	468,600	993	469,103	1175	469,846	1149
466,634	856	467,024	1230	467,413	1009								



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469,955	1228	470,267	1287	470,461	1269	470,825	1290	471,343	1290	471,734	1290	472,294	1408
469,959	1169	470,271	1346	470,462	1269	470,842	1288	471,389	1180	471,743	1317	472,340	1299
469,969	1182	470,275	1009	470,468	1268	470,852	1176	471,396	1316	471,744	1310	472,389	1320
469,971	1146	470,298	1173	470,475	1182	470,859	1172	471,404	1315	471,748	1345	472,390	1312
469,976	1236	470,305	1337	470,500	1237	470,918	1236	471,416	1270	471,755	1372	472,398	1314
469,978	1207	470,310	1362	470,503	1172	470,952	1343	471,418	1318	471,757	1345	472,459	1316
469,999	1231	470,315	1288	470,519	1241	470,955	1276	471,424	1287	471,770	1288	472,489	1314
470,000	1368	470,322	1014	470,529	1182	470,965	1289	471,425	1363	471,771	1396	472,531	1408
470,003	1225	470,323	1362	470,536	1289	470,976	1287	471,435	1318	471,773	1405	472,541	1301
470,006	1207	470,328	1170	470,542	1183	470,977	1287	471,443	1175	471,783	1290	472,545	1315
470,007	1182	470,330	1359	470,546	1362	470,985	1289	471,461	1288	471,790	1364	472,553	1309
470,013	1147	470,333	1197	470,550	1174	471,010	1175	471,462	1302	471,803	1408	472,556	1300
470,021	1177	470,334	1333	470,558	1287	471,035	1360	471,468	1288	471,808	1329	472,612	1408
470,037	1181	470,335	1177	470,573	1235	471,048	1178	471,475	1288	471,813	1342	472,613	1331
470,043	1224	470,338	1174	470,601	1322	471,052	1342	471,482	1305	471,837	1310	472,630	1328
470,062	1146	470,343	1181	470,636	1171	471,062	1363	471,483	1312	471,841	1289	472,632	1346
470,077	1179	470,346	1177	470,640	1170	471,112	1180	471,484	1405	471,842	1288	472,653	1372
470,079	1183	470,350	1182	470,649	1288	471,120	1291	471,489	1317	471,843	1290	472,699	1318
470,081	1169	470,360	1010	470,662	1287	471,125	1175	471,496	1197	471,846	1337	472,761	1300
470,083	1148	470,365	1057	470,670	1396	471,130	1174	471,520	1270	471,855	1287	472,823	1316
470,100	1288	470,373	1346	470,675	1342	471,143	1290	471,523	1288	471,907	1280	472,890	1328
470,115	1364	470,377	1289	470,679	1287	471,144	1296	471,542	1289	471,908	1406	472,904	1323
470,116	1179	470,381	1289	470,680	1287	471,153	1256	471,567	1342	471,914	1311	472,970	1299
470,132	1363	470,386	1300	470,682	1359	471,175	1287	471,586	1277	471,917	1314	472,988	1312
470,133	1361	470,397	1173	470,694	1287	471,176	1363	471,590	1309	471,921	1327	472,994	1313
470,154	1337	470,398	1181	470,703	1184	471,180	1288	471,595	1309	471,922	1277	473,120	1329
470,156	1196	470,405	1246	470,717	1173	471,186	1310	471,600	1325	471,923	1316	473,126	1327
470,170	1287	470,406	1336	470,718	1288	471,187	1309	471,614	1276	471,952	1312	473,142	1332
470,173	1405	470,407	1182	470,719	1409	471,188	1309	471,637	1346	471,968	1381	473,143	1311
470,175	1290	470,413	1342	470,725	1276	471,206	1288	471,640	1325	471,972	1277	473,192	1329
470,181	1172	470,417	1336	470,720	1270	471,207	1364	471,641	1325	472,043	1329	473,219	1310
470,183	1337	470,418	1412	470,753	1405	471,213	1305	471,646	1940	472,093	1312	473,304	1329
470,187	1337	470,419	1291	470,769	1300	471,210	1301	471,666	1314	472,125	1317	473,334	1313
470,234	1364	470,428	1336	470,772	1346	471,235	1300	471,669	1287	472,167	1315	473,441	1364
470,240	1363	470,434	1289	470,773	1172	471,237	1316	471,676	1275	472,170	1315	473,442	1364
470,244	1364	470,436	1197	470,782	1346	471,247	1333	471,683	1288	472,171	1316	473,522	1313
470,247	1270	470,440	1290	470,787	1247	471,273	1287	471,686	1317	472,224	1277	473,523	1408
470,251	1361	470,449	1290	470,791	1246	471,295	1290	471,698	1347	472,227	1410	473,525	1317
470,253	1342	470,452	1360	470,817	1169	471,318	1396	471,726	1312	472,270	1300	473,644	1310
470,258	1169	470,458	1287	470,823	1346	471,333	1305						

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1,975,100	1027	2,021,412	36	2,022,485	20	2,026,068	31	2,026,558	252	2,026,842	6	2,027,185	3
1,975,340	221	2,021,420	65	2,022,500	150	2,026,453	69	2,026,559	252	2,026,862	263	2,027,229	91
1,975,465	222	2,021,475	30	2,022,606	1027	2,026,517	67	2,026,560	252	2,026,865	28	2,027,270	84
1,981,516	119	2,021,477	54	2,022,678	1026	2,026,519	35	2,026,561	252	2,026,873	31	2,027,277	55
1,988,499	1031	2,021,501	36	2,022,748	1041	2,026,531	91	2,026,562	252	2,026,875	63	2,027,300	248
1,988,753	1015	2,021,510	54	2,022,884	1028	2,026,584	27	2,026,563	252	2,026,877	14	2,027,307	39
2,007,971	484	2,021,546	30	2,023,500	84	2,026,589	252	2,026,564	252	2,026,900	29	2,027,308	39
2,008,738	1030	2,021,558	30	2,023,536	84	2,026,590	252	2,026,565	252	2,026,903	4	2,027,309	39
2,008,739	1030	2,021,576	53	2,023,590	1027	2,026,591	252	2,026,566	252	2,026,922	2	2,027,316	239
2,008,753	135	2,021,592	53	2,023,591	1027	2,026,592	252	2,026,567	252	2,026,935	6	2,027,330	250
2,009,522	276	2,021,606	147	2,023,644	4	2,026,603	250	2,026,568	252	2,026,936	6	2,027,337	64
2,013,034	277	2,021,671	134	2,024,357	284	2,026,618	120	2,026,569	252	2,026,958	251	2,027,338	64
2,013,040	16	2,021,672	99	2,024,368	1027	2,026,619	120	2,026,570	252	2,026,964	90	2,027,339	64
2,013,318	218	2,021,690	134	2,024,575	23	2,026,621	53	2,026,571	252	2,026,969	94	2,027,346	210
2,014,897	276	2,021,725	136	2,024,606	23	2,026,624	39	2,026,572	252	2,026,985	21	2,027,354	210
2,014,794	277	2,021,781	147	2,024,613	22	2,026,633	4	2,026,573	252	2,026,986	28	2,027,357	250
2,014,798	277	2,021,782	147	2,024,623	22	2,026,676	85	2,026,574	252	2,026,987	38	2,027,361	285
2,014,799	277	2,021,783	147	2,024,624	22	2,026,697	85	2,026,575	252	2,026,988	41	2,027,364	239
2,015,375	382	2,021,791	135	2,024,625	22	2,026,735	27	2,026,576	252	2,026,989	41	2,027,370	94
2,015,743	222	2,021,865	136	2,024,654	16	2,026,760	53	2,026,577	252	2,027,000	119	2,027,374	94
2,019,480	67	2,021,885	148	2,024,675	1041	2,026,767	6	2,026,578	252	2,027,001	67	2,027,375	4
2,019,846	1020	2,021,896	135	2,024,681	231	2,026,129	233	2,026,579	252	2,027,021	41	2,027,387	285
2,019,850	1030	2,021,930	135	2,024,690	18	2,026,190	234	2,026,605	253	2,027,030	88	2,027,389	6
2,020,051	23	2,021,938	129	2,025,025	27	2,026,253	30	2,026,614	42	2,027,031	88	2,027,394	114
2,020,387	1031	2,021,945	147	2,025,072	32	2,026,540	252	2,026,616	55	2,027,047	28	2,027,395	94
2,020,431	36	2,021,979	147	2,025,073	28	2,026,541	252	2,026,623	330	2,027,065	53	2,027,404	41
2,020,468	55	2,021,981	97	2,025,094	1027	2,026,542	252	2,026,631	84	2,027,080	30	2,027,410	6
2,020,539	65	2,021,986	135	2,025,095	1026	2,026,543	252	2,026,647	122	2,027,090	29	2,027,422	381
2,020,543	6	2,021,987	135	2,025,117	1027	2,026,544	252	2,026,683	248	2,027,093	30	2,027,435	69
2,020,854	36	2,021,988	135	2,025,102	17	2,026,545	252	2,026,717	38	2,027,094	6	2,027,436	69
2,020,918	65	2,021,990	159	2,025,283	29	2,026,546	252	2,026,718	54	2,027,095	64	2,027,440	238
2,020,932	35	2,021,991	159	2,025,376	29	2,026,547	252	2,026,737	39	2,027,099	77	2,027,446	88
2,020,949	53	2,022,003	135	2,025,435	27	2,026,548	252	2,026,781	38	2,027,114	91	2,027,460	114
2,020,976	35	2,022,012	134	2,025,568	29	2,026,549	252	2,026,782	39	2,027,126	80	2,027,462	210
2,021,012	35	2,022,050	436	2,025,671	90	2,026,550	252	2,026,785	118	2,027,129	77	2,027,466	65
2,021,040	53	2,022,093	382	2,025,788	29	2,026,551	252	2,026,790	3	2,027,144	123	2,027,467	65
2,021,044	88	2,022,165	135	2,025,806	59	2,026,552	252	2,026,799	36	2,027,148	120	2,027,501	94
2,021,093	35	2,022,171	147	2,025,807	59	2,026,553	252	2,026,812	209	2,027,152	4	2,027,518	18
2,021,150	53	2,022,192	147	2,025,808	59	2,026,554	252	2,026,819	237	2,027,155	38	2,027,535	94
2,021,220	653	2,022,262	231	2,025,809	59	2,026,555	252	2,026,825	3	2,027,166	64	2,027,550	20
2,021,284	36	2,022,307	458	2,025,868	28	2,026,556	252	2,026,834	4	2,027,167	285	2,027,552	113
2,021,380	36	2,022,439	148	2,025,945	42	2,026,557	252	2,026,840	30	2,027,182	21	2,027,578	35

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2,027,581	120	2,028,309	262	2,029,467	237	2,030,200	88	2,030,964	185	2,031,895	201	2,032,897	581
2,027,582	113	2,028,403	262	2,029,481	127	2,030,210	88	2,030,965	185	2,031,898	342	2,032,912	581
2,027,597	4	2,028,416	436	2,029,492	53	2,030,222	266	2,030,970	1027	2,031,909	358	2,032,925	543
2,027,615	15	2,028,473	437	2,029,494	88	2,030,226	158	2,030,985	220	2,031,913	357	2,032,926	583
2,027,616	15	2,028,481	438	2,029,504	113	2,030,229	251	2,030,991	1026	2,031,916	361	2,032,963	580
2,027,648	16	2,028,482	438	2,029,506	153	2,030,230	230	2,031,018	100	2,031,917	320	2,032,977	580
2,027,652	5	2,028,502	157	2,029,524	239	2,030,245	114	2,031,019	149	2,031,930	210	2,032,992	334
2,027,660	20	2,028,538	416	2,029,525	120	2,030,273	238	2,031,027	100	2,031,935	99	2,032,994	291
2,027,714	238	2,028,552	409	2,029,528	5	2,030,283	113	2,031,030	148	2,031,936	99	2,033,009	279
2,027,722	89	2,028,575	89	2,029,530	237	2,030,284	210	2,031,035	230	2,031,939	16	2,033,010	115
2,027,732	254	2,028,619	189	2,029,531	237	2,030,307	211	2,031,047	142	2,031,944	67	2,033,029	149
2,027,738	17	2,028,632	437	2,029,537	218	2,030,323	3	2,031,049	142	2,031,960	161	2,033,055	543
2,027,750	250	2,028,639	437	2,029,547	127	2,030,342	252	2,031,053	130	2,031,961	210	2,033,056	218
2,027,766	274	2,028,709	409	2,029,572	177	2,030,343	252	2,031,087	97	2,031,969	346	2,033,057	18
2,027,770	17	2,028,710	409	2,029,592	177	2,030,357	252	2,031,095	18	2,031,972	321	2,033,091	263
2,027,782	3	2,028,711	409	2,029,605	115	2,030,372	237	2,031,096	18	2,031,973	350	2,033,099	335
2,027,786	251	2,028,712	409	2,029,611	5	2,030,377	188	2,031,102	56	2,031,978	350	2,033,102	581
2,027,787	251	2,028,713	438	2,029,617	161	2,030,382	129	2,031,107	18	2,031,986	211	2,033,106	510
2,027,788	251	2,028,715	234	2,029,619	115	2,030,383	129	2,031,108	18	2,031,991	264	2,033,125	233
2,027,801	85	2,028,716	255	2,029,627	39	2,030,384	129	2,031,113	251	2,031,999	264	2,033,131	471
2,027,807	250	2,028,733	436	2,029,642	119	2,030,385	154	2,031,117	210	2,032,006	405	2,033,132	472
2,027,825	296	2,028,739	436	2,029,648	172	2,030,389	241	2,031,118	210	2,032,035	296	2,033,132	472
2,027,829	128	2,028,758	159	2,029,655	270	2,030,390	241	2,031,128	255	2,032,071	159	2,033,138	5
2,027,837	250	2,028,759	357	2,029,657	209	2,030,397	56	2,031,129	241	2,032,077	140	2,033,145	322
2,027,855	239	2,028,775	460	2,029,663	239	2,030,402	56	2,031,144	16	2,032,087	99	2,033,148	211
2,027,868	248	2,028,792	127	2,029,667	5	2,030,403	56	2,031,145	16	2,032,091	262	2,033,149	542
2,027,902	217	2,028,800	213	2,029,688	5	2,030,439	56	2,031,162	250	2,032,093	883	2,033,159	642
2,027,903	18	2,028,801	213	2,029,689	13	2,030,440	56	2,031,169	850	2,032,140	99	2,033,161	325
2,027,904	382	2,028,821	28	2,029,690	5	2,030,443	55	2,031,171	142	2,032,142	142	2,033,163	375
2,027,911	128	2,028,846	127	2,029,691	5	2,030,461	277	2,031,185	502	2,032,159	213	2,033,169	197
2,027,920	3	2,028,879	1027	2,029,694	118	2,030,469	130	2,031,200	214	2,032,160	382	2,033,170	338
2,027,931	244	2,028,886	117	2,029,702	194	2,030,476	241	2,031,204	18	2,032,165	465	2,033,172	359
2,027,932	248	2,028,887	3	2,029,722	153	2,030,480	211	2,031,205	18	2,032,173	342	2,033,180	617
2,027,948	237	2,028,888	3	2,029,728	252	2,030,483	130	2,031,206	261	2,032,174	357	2,033,182	329
2,027,957	32	2,028,908	158	2,029,748	17	2,030,528	209	2,031,210	18	2,032,197	100	2,033,196	296
2,027,959	6	2,028,911	457	2,029,757	211	2,030,538	5	2,031,214	18	2,032,201	666	2,033,198	296
2,027,961	63	2,028,914	158	2,029,758	209	2,030,568	63	2,031,227	211	2,032,209	356	2,033,202	335
2,027,962	63	2,028,922	209	2,029,759	207	2,030,575	209	2,031,228	212	2,032,215	148	2,033,203	326
2,027,967	88	2,028,932	129	2,029,760	207	2,030,583	237	2,031,232	178	2,032,236	347	2,033,213	194
2,027,968	32	2,028,935	69	2,029,761	207	2,030,584	274	2,031,239	229	2,032,247	97	2,033,215	197
2,027,973	32	2,028,940	457	2,029,762	207	2,030,601	249	2,031,243	186	2,032,250	375	2,033,217	296
2,027,976	74	2,028,941	455	2,029,763	207	2,030,607	38	2,031,267	127	2,032,256	357	2,033,240	581
2,027,977	2	2,028,949	5	2,029,785	114	2,030,612	6	2,031,289	93	2,032,263	288	2,033,261	241
2,027,982	37	2,028,952	129	2,029,789	289	2,030,625	129	2,031,299	253	2,032,299	119	2,033,280	472
2,027,988	64	2,028,955	5	2,029,810	249	2,030,626	129	2,031,308	172	2,032,322	361	2,033,281	472
2,028,012	213	2,028,956	41	2,029,826	237	2,030,627	238	2,031,315	250	2,032,330	17	2,033,291	198
2,028,014	16	2,028,958	1027	2,029,830	1031	2,030,628	238	2,031,316	250	2,032,346	244	2,033,300	347
2,028,017	39	2,028,959	1027	2,029,835	208	2,030,633	163	2,031,352	147	2,032,347	244	2,033,302	307
2,028,018	39	2,028,970	85	2,029,851	159	2,030,645	2	2,031,362	140	2,032,361	266	2,033,321	581
2,028,029	248	2,028,990	190	2,029,852	5	2,030,653	129	2,031,368	18	2,032,363	295	2,033,323	307
2,028,041	22	2,028,995	114	2,029,865	111	2,030,659	238	2,031,403	343	2,032,385	230	2,033,326	279
2,028,043	119	2,028,998	114	2,029,873	177	2,030,670	252	2,031,405	367	2,032,401	501	2,033,331	356
2,028,061	5	2,029,012	157	2,029,881	668	2,030,690	209	2,031,410	318	2,032,402	194	2,033,339	218
2,028,062	6	2,029,017	3	2,029,883	113	2,030,698	53	2,031,431	115	2,032,407	97	2,033,363	218
2,028,064	21	2,029,034	129	2,029,893	158	2,030,709	264	2,031,437	100	2,032,412	194	2,033,370	327
2,028,065	216	2,029,052	38	2,029,894	158	2,030,714	241	2,031,443	185	2,032,431	14	2,033,374	324
2,028,072	84	2,029,088	162	2,029,895	112	2,030,716	255	2,031,475	943	2,032,437	334	2,033,388	543
2,028,074	22	2,029,090	53	2,029,900	127	2,030,717	255	2,031,481	158	2,032,439	361	2,033,389	543
2,028,080	128	2,029,100	114	2,029,917	3	2,030,720	161	2,031,485	230	2,032,442	390	2,033,411	350
2,028,081	217	2,029,115	114	2,029,921	692	2,030,736	128	2,031,494	358	2,032,443	384	2,033,412	305
2,028,082	121	2,029,126	4	2,029,925	157	2,030,737	128	2,031,497	211	2,032,457	341	2,033,413	305
2,028,086	67	2,029,156	250	2,029,931	38	2,030,738	128	2,031,504	343	2,032,458	264	2,033,416	352
2,028,087	35	2,029,168	214	2,029,958	94	2,030,739	128	2,031,505	396	2,032,471	266	2,033,444	581
2,028,091	214	2,029,204	159	2,029,959	94	2,030,740	128	2,031,538	357	2,032,510	219	2,033,470	197
2,028,094	5	2,029,226	128	2,029,960	94	2,030,743	140	2,031,554	359	2,032,520	219	2,033,471	197
2,028,096	54	2,029,248	186	2,029,961	94	2,030,792	188	2,031,557	371	2,032,528	259	2,033,481	230
2,028,099	37	2,029,253	242	2,029,962	194	2,030,800	218	2,031,559	343	2,032,543	259	2,033,485	230
2,028,104	121	2,029,256	114	2,029,963	194	2,030,802	118	2,031,581	289	2,032,554	258	2,033,486	335
2,028,106	53	2,029,261	185	2,029,964	194	2,030,811	238	2,031,585	142	2,032,561	581	2,033,500	198
2,028,109	172	2,029,262	208	2,029,966	194	2,030,819	30	2,031,589	99	2,032,562	581	2,033,509	15
2,028,114	121	2,029,264	274	2,029,967	667	2,030,832	211	2,031,590	98	2,032,582	391	2,033,511	14
2,028,115	1030	2,029,270	5	2,029,968	428	2,030,835	213	2,031,600	113	2,032,583	230	2,033,513	581
2,028,116	121	2,029,291	5	2,029,969	428	2,030,839	3	2,031,603	325	2,032,584	230	2,033,514	394
2,028,117	1028	2,029,292	5	2,029,970	428	2,030,847	98	2,031,606	264	2,032,585	17	2,033,515	394
2,028,118	1025	2,029,293	5	2,029,971	428	2,030,860	295	2,031,610	99	2,032,586	214	2,033,518	305
2,028,121	17	2,029,294	5	2,029,972	428	2,030,867	358	2,031,619	214	2,032,587	208	2,033,536	215
2,028,124	112	2,029,301	215	2,029,973	128	2,030,868	358	2,031,629	234	2,032,587	617	2,033,537	215
2,028,125	135	2,029,307	2	2,029,985	231	2,030,87							



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2,033,698	308	2,034,681	542	2,035,491	322	2,036,387	1103	2,037,490	630	2,038,540	495	2,039,250	318
2,033,702	197	2,034,682	543	2,035,494	465	2,036,392	431	2,037,522	431	2,038,546	741	2,039,264	631
2,033,707	551	2,034,685	543	2,035,502	420	2,036,396	320	2,037,559	629	2,038,550	474	2,039,270	1193
2,033,709	580	2,034,693	580	2,035,509	733	2,036,397	1191	2,037,563	323	2,038,558	700	2,039,297	780
2,033,710	580	2,034,696	433	2,035,510	420	2,036,402	651	2,037,566	581	2,038,559	1162	2,039,326	933
2,033,716	333	2,034,711	333	2,035,515	470	2,036,404	495	2,037,574	632	2,038,562	778	2,039,327	933
2,033,720	325	2,034,712	320	2,035,517	691	2,036,410	419	2,037,585	470	2,038,563	700	2,039,328	933
2,033,732	259	2,034,721	347	2,035,518	662	2,036,416	715	2,037,596	581	2,038,564	418	2,039,330	910
2,033,737	210	2,034,783	291	2,035,523	669	2,036,423	1191	2,037,600	551	2,038,565	672	2,039,331	933
2,033,740	288	2,034,795	304	2,035,527	1198	2,036,424	1197	2,037,633	581	2,038,574	419	2,039,344	528
2,033,782	333	2,034,797	342	2,035,528	471	2,036,425	691	2,037,654	417	2,038,582	496	2,039,361	537
2,033,783	581	2,034,802	263	2,035,541	302	2,036,432	636	2,037,655	633	2,038,586	841	2,039,363	945
2,033,787	333	2,034,817	55	2,035,546	716	2,036,440	500	2,037,656	715	2,038,589	813	2,039,364	947
2,033,819	233	2,034,818	17	2,035,550	689	2,036,466	431	2,037,669	319	2,038,590	813	2,039,365	1243
2,033,853	198	2,034,833	298	2,035,578	700	2,036,469	412	2,037,673	635	2,038,591	1041	2,039,366	947
2,033,856	220	2,034,837	15	2,035,583	421	2,036,470	412	2,037,679	635	2,038,593	416	2,039,367	945
2,033,866	418	2,034,850	213	2,035,584	421	2,036,471	471	2,037,685	668	2,038,594	631	2,039,372	856
2,033,869	74	2,034,861	333	2,035,586	404	2,036,481	482	2,037,687	468	2,038,599	410	2,039,377	755
2,033,870	74	2,034,884	308	2,035,592	304	2,036,487	422	2,037,704	430	2,038,614	1162	2,039,390	527
2,033,877	15	2,034,884	308	2,035,597	306	2,036,494	715	2,037,706	667	2,038,616	460	2,039,391	527
2,033,878	15	2,034,889	266	2,035,603	306	2,036,497	691	2,037,710	472	2,038,617	417	2,039,409	978
2,033,885	15	2,034,891	307	2,035,606	343	2,036,505	720	2,037,712	416	2,038,620	420	2,039,432	779
2,033,886	39	2,034,895	468	2,035,607	322	2,036,508	668	2,037,716	502	2,038,627	672	2,039,434	528
2,033,909	214	2,034,896	543	2,035,608	322	2,036,517	668	2,037,717	526	2,038,632	644	2,039,440	755
2,033,910	212	2,034,914	307	2,035,609	322	2,036,521	631	2,037,718	526	2,038,633	495	2,039,441	755
2,033,913	543	2,034,923	591	2,035,610	322	2,036,522	631	2,037,732	691	2,038,639	799	2,039,444	428
2,033,916	217	2,034,941	321	2,035,619	495	2,036,560	667	2,037,733	691	2,038,640	755	2,039,445	441
2,033,918	217	2,034,952	342	2,035,620	474	2,036,570	667	2,037,734	472	2,038,653	697	2,039,481	945
2,033,921	200	2,034,962	327	2,035,642	730	2,036,574	700	2,037,740	472	2,038,657	318	2,039,483	934
2,033,923	193	2,034,963	321	2,035,649	395	2,036,576	690	2,037,749	474	2,038,667	632	2,039,487	931
2,033,927	580	2,034,969	307	2,035,652	465	2,036,577	469	2,037,761	631	2,038,678	1191	2,039,512	402
2,033,928	198	2,034,983	289	2,035,655	411	2,036,578	689	2,037,762	692	2,038,679	536	2,039,514	526
2,033,929	198	2,034,986	291	2,035,663	302	2,036,588	476	2,037,781	321	2,038,688	323	2,039,529	703
2,033,932	16	2,034,987	551	2,035,673	301	2,036,606	430	2,037,789	321	2,038,689	323	2,039,534	402
2,033,933	543	2,034,994	551	2,035,690	420	2,036,613	629	2,037,790	321	2,038,690	346	2,039,540	402
2,033,934	543	2,034,996	551	2,035,698	474	2,036,617	673	2,037,791	321	2,038,694	729	2,039,555	908
2,033,942	16	2,035,015	551	2,035,699	690	2,036,618	635	2,037,792	321	2,038,700	733	2,039,576	755
2,033,947	469	2,035,016	580	2,035,732	391	2,036,638	493	2,037,793	469	2,038,702	542	2,039,595	755
2,033,949	220	2,035,022	583	2,035,741	420	2,036,642	317	2,037,800	629	2,038,703	419	2,039,603	755
2,033,954	230	2,035,024	230	2,035,742	420	2,036,649	499	2,037,813	630	2,038,704	419	2,039,636	755
2,033,960	624	2,035,030	308	2,035,758	304	2,036,664	689	2,037,814	630	2,038,709	474	2,039,645	910
2,033,974	580	2,035,098	470	2,035,804	666	2,036,667	690	2,037,840	633	2,038,720	635	2,039,653	908
2,034,020	262	2,035,101	544	2,035,842	391	2,036,669	695	2,037,848	694	2,038,724	631	2,039,692	402
2,034,024	17	2,035,102	10	2,035,850	341	2,036,723	626	2,037,876	651	2,038,726	672	2,039,708	1192
2,034,056	285	2,035,106	325	2,035,851	304	2,036,760	667	2,037,878	880	2,038,751	701	2,039,722	525
2,034,068	323	2,035,112	320	2,035,860	469	2,036,827	493	2,037,885	321	2,038,755	701	2,039,730	623
2,034,070	543	2,035,120	320	2,035,866	715	2,036,839	645	2,037,886	321	2,038,757	669	2,039,738	454
2,034,071	579	2,035,121	325	2,035,868	319	2,036,848	690	2,037,898	474	2,038,760	630	2,039,739	978
2,034,077	543	2,035,122	319	2,035,872	334	2,036,870	715	2,037,913	469	2,038,780	536	2,039,742	732
2,034,130	579	2,035,123	263	2,035,889	318	2,036,882	536	2,037,932	950	2,038,788	827	2,039,743	700
2,034,152	74	2,035,126	307	2,035,896	666	2,036,902	690	2,037,933	321	2,038,797	672	2,039,744	658
2,034,175	18	2,035,133	319	2,035,899	494	2,036,916	465	2,037,937	431	2,038,798	322	2,039,753	700
2,034,180	300	2,035,141	469	2,035,910	321	2,036,922	421	2,037,995	677	2,038,834	411	2,039,763	323
2,034,197	16	2,035,189	17	2,035,940	465	2,036,934	421	2,038,002	630	2,038,836	701	2,039,768	873
2,034,220	293	2,035,197	689	2,035,951	307	2,036,945	501	2,038,008	98	2,038,839	701	2,039,790	873
2,034,225	303	2,035,219	302	2,035,981	429	2,036,947	1191	2,038,019	715	2,038,850	800	2,039,808	537
2,034,230	293	2,035,233	262	2,035,997	430	2,036,949	693	2,038,023	411	2,038,865	417	2,039,822	934
2,034,256	542	2,035,250	265	2,036,009	700	2,036,966	413	2,038,025	666	2,038,874	1192	2,039,833	935
2,034,274	17	2,035,251	265	2,036,015	691	2,036,973	413	2,038,034	673	2,038,904	629	2,039,835	323
2,034,278	580	2,035,267	666	2,036,036	1197	2,036,994	732	2,038,044	727	2,038,921	633	2,039,837	1230
2,034,283	210	2,035,270	261	2,036,100	308	2,037,001	428	2,038,072	667	2,038,925	657	2,039,853	441
2,034,292	212	2,035,286	378	2,036,156	350	2,037,004	587	2,038,074	526	2,038,931	633	2,039,880	402
2,034,333	291	2,035,292	328	2,036,130	350	2,037,006	587	2,038,078	666	2,038,939	720	2,039,894	412
2,034,347	520	2,035,306	360	2,036,160	320	2,037,028	666	2,038,083	669	2,038,947	651	2,039,940	499
2,034,348	580	2,035,314	263	2,036,167	487	2,037,049	433	2,038,097	503	2,038,967	779	2,039,955	441
2,034,351	518	2,035,315	362	2,036,174	430	2,037,053	476	2,038,100	632	2,038,988	799	2,039,989	697
2,034,361	542	2,035,317	290	2,036,190	441	2,037,056	318	2,038,106	677	2,039,003	319	2,040,033	945
2,034,372	581	2,035,318	346	2,036,195	468	2,037,090	716	2,038,113	468	2,039,008	635	2,040,039	981
2,034,390	222	2,035,346	263	2,036,208	730	2,037,111	583	2,038,114	895	2,039,045	503	2,040,040	981
2,034,401	302	2,035,348	263	2,036,213	430	2,037,112	730	2,038,136	691	2,039,046	503	2,040,053	932
2,034,405	413	2,035,349	10	2,036,214	669	2,037,119	432	2,038,137	691	2,039,062	629	2,040,054	932
2,034,425	580	2,035,363	672	2,036,215	320	2,037,134	633	2,038,178	692	2,039,063	418	2,040,055	932
2,034,427	215	2,035,364	672	2,036,220	608	2,037,189	664	2,038,208	680	2,039,064	418	2,040,065	900
2,034,435	230	2,035,366	668	2,036,221	668	2,037,196	469	2,038,221	680	2,039,070	669	2,040,075	1242
2,034,437	433	2,035,380	691	2,036,244	667	2,037,203	482	2,038,246	695	2,039,082	729	2,040,078	932
2,034,457	263	2,035,383	325	2,036,245	692	2,037,255	690	2,038,251	631	2,039,087	799	2,040,081	909
2,034,459	217	2,035,392	690	2,036,250	669	2,037,257	3						

No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.
2,040,238	346	2,040,903	857	2,041,744	1236	2,042,434	779	2,043,257	524	2,044,165	933	2,044,934	715
2,040,239	323	2,040,904	857	2,041,754	872	2,042,435	779	2,043,258	524	2,044,167	903	2,044,940	1046
2,040,249	617	2,040,905	857	2,041,763	1147	2,042,436	779	2,043,259	524	2,044,175	695	2,044,941	1089
2,040,264	487	2,040,906	857	2,041,769	800	2,042,437	772	2,043,260	524	2,044,176	1242	2,044,942	1047
2,040,269	933	2,040,907	857	2,041,782	527	2,042,451	526	2,043,263	907	2,044,181	1240	2,044,946	1247
2,040,270	644	2,040,908	857	2,041,802	803	2,042,469	1144	2,043,265	850	2,044,199	916	2,044,959	715
2,040,282	933	2,040,909	857	2,041,808	1207	2,042,473	654	2,043,267	904	2,044,210	933	2,044,962	1343
2,040,283	933	2,040,910	857	2,041,810	1224	2,042,477	1047	2,043,282	530	2,044,213	658	2,044,969	1374
2,040,284	631	2,040,911	857	2,041,811	1224	2,042,478	1047	2,043,284	780	2,044,214	1337	2,044,993	653
2,040,321	935	2,040,912	857	2,041,813	1210	2,042,485	1342	2,043,288	872	2,044,220	1242	2,044,996	1150
2,040,324	934	2,040,913	529	2,041,814	524	2,042,486	1342	2,043,300	799	2,044,231	1240	2,045,057	1302
2,040,351	633	2,040,916	1248	2,041,826	1144	2,042,494	1209	2,043,307	799	2,044,244	909	2,045,017	1047
2,040,352	633	2,040,928	530	2,041,835	812	2,042,527	800	2,043,313	636	2,044,246	942	2,045,052	1324
2,040,366	321	2,040,931	872	2,041,836	776	2,042,529	1192	2,043,324	1330	2,044,261	734	2,045,069	653
2,040,370	689	2,040,937	1207	2,041,840	526	2,042,534	1231	2,043,350	633	2,044,279	668	2,045,073	1072
2,040,378	695	2,040,944	524	2,041,844	800	2,042,549	779	2,043,363	798	2,044,282	839	2,045,081	1149
2,040,395	321	2,040,957	931	2,041,858	529	2,042,557	874	2,043,378	697	2,044,297	1391	2,045,092	1071
2,040,396	321	2,040,967	649	2,041,859	872	2,042,585	1241	2,043,370	644	2,044,310	634	2,045,095	1324
2,040,406	629	2,041,029	931	2,041,865	801	2,042,588	1190	2,043,387	799	2,044,318	651	2,045,096	1266
2,040,407	629	2,041,042	934	2,041,866	801	2,042,589	1193	2,043,388	875	2,044,341	909	2,045,097	1266
2,040,416	734	2,041,043	1147	2,041,867	801	2,042,591	803	2,043,389	875	2,044,350	694	2,045,099	1058
2,040,430	697	2,041,045	1145	2,041,868	1231	2,042,606	1231	2,043,392	617	2,044,355	650	2,045,116	1148
2,040,431	634	2,041,047	908	2,041,954	1230	2,042,611	801	2,043,397	1242	2,044,366	933	2,045,124	1148
2,040,442	932	2,041,048	1145	2,041,968	537	2,042,621	526	2,043,449	673	2,044,386	629	2,045,125	730
2,040,455	320	2,041,052	1230	2,041,947	772	2,042,625	800	2,043,455	657	2,044,401	677	2,045,130	1342
2,040,461	587	2,041,050	1147	2,042,003	813	2,042,626	709	2,043,458	986	2,044,414	648	2,045,137	1331
2,040,467	530	2,041,058	932	2,042,006	1148	2,042,632	1144	2,043,459	986	2,044,416	1160	2,045,138	1071
2,040,472	629	2,041,076	875	2,042,011	1160	2,042,635	1228	2,043,513	1240	2,044,417	648	2,045,139	1332
2,040,473	531	2,041,088	1146	2,042,010	772	2,042,638	1193	2,043,533	800	2,044,419	907	2,045,153	1046
2,040,481	350	2,041,092	1193	2,042,019	526	2,042,639	872	2,043,547	621	2,044,421	1010	2,045,160	1306
2,040,490	950	2,041,120	1210	2,042,035	755	2,042,646	857	2,043,549	800	2,044,431	935	2,045,167	1246
2,040,491	950	2,041,129	838	2,042,038	812	2,042,665	931	2,043,559	672	2,044,432	1323	2,045,234	1012
2,040,502	632	2,041,130	1242	2,042,042	1146	2,042,675	778	2,043,564	1193	2,044,450	631	2,045,236	1072
2,040,503	632	2,041,131	934	2,042,047	592	2,042,676	1140	2,043,573	800	2,044,455	631	2,045,237	1072
2,040,515	932	2,041,138	1150	2,042,048	592	2,042,677	1140	2,043,574	800	2,044,457	630	2,045,238	1072
2,040,530	694	2,041,142	1210	2,042,050	873	2,042,678	1190	2,043,575	800	2,044,466	704	2,045,239	1072
2,040,532	689	2,041,143	536	2,042,051	873	2,042,679	1241	2,043,588	800	2,044,467	1368	2,045,240	1072
2,040,547	635	2,041,155	1210	2,042,052	873	2,042,709	1046	2,043,589	802	2,044,468	648	2,045,241	1072
2,040,548	908	2,041,158	850	2,042,053	873	2,042,711	1235	2,043,631	800	2,044,493	1090	2,045,242	1072
2,040,563	908	2,041,184	529	2,042,054	873	2,042,712	1255	2,043,633	1274	2,044,502	716	2,045,243	1072
2,040,600	727	2,041,188	1146	2,042,055	873	2,042,713	1148	2,043,638	645	2,044,505	1240	2,045,244	1072
2,040,606	536	2,041,193	526	2,042,056	873	2,042,718	874	2,043,640	673	2,044,535	677	2,045,245	1072
2,040,607	536	2,041,213	1230	2,042,063	592	2,042,729	525	2,043,641	676	2,044,553	908	2,045,246	1072
2,040,609	317	2,041,217	1240	2,042,072	1146	2,042,758	873	2,043,642	677	2,044,562	653	2,045,247	1072
2,040,617	934	2,041,223	1240	2,042,095	1149	2,042,795	1239	2,043,646	873	2,044,570	1159	2,045,255	1019
2,040,618	934	2,041,248	1241	2,042,096	1145	2,042,814	1202	2,043,688	525	2,044,571	1376	2,045,259	1206
2,040,632	694	2,041,264	604	2,042,104	587	2,042,818	1148	2,043,705	850	2,044,572	1242	2,045,262	1012
2,040,658	524	2,041,272	524	2,042,117	783	2,042,830	1148	2,043,710	632	2,044,573	635	2,045,266	1072
2,040,661	608	2,041,279	1210	2,042,121	800	2,042,833	1210	2,043,713	720	2,044,579	1241	2,045,275	1246
2,040,671	630	2,041,285	537	2,042,122	1145	2,042,840	1230	2,043,720	694	2,044,582	630	2,045,286	1072
2,040,673	1235	2,041,287	1146	2,042,124	1225	2,042,857	970	2,043,724	694	2,044,583	630	2,045,301	1201
2,040,679	931	2,041,294	536	2,042,134	525	2,042,860	1148	2,043,743	779	2,044,584	630	2,045,304	651
2,040,698	950	2,041,297	537	2,042,145	634	2,042,862	524	2,043,766	674	2,044,603	1013	2,045,305	1012
2,040,700	635	2,041,298	604	2,042,148	582	2,042,870	1145	2,043,805	947	2,044,608	1239	2,045,306	1015
2,040,729	677	2,041,308	873	2,042,155	1148	2,042,877	1241	2,043,811	799	2,044,612	700	2,045,318	1230
2,040,733	733	2,041,312	1224	2,042,156	807	2,042,887	873	2,043,810	636	2,044,614	632	2,045,321	1012
2,040,765	530	2,041,313	1224	2,042,165	880	2,042,917	1373	2,043,824	1241	2,044,616	672	2,045,335	1145
2,040,770	643	2,041,331	934	2,042,173	587	2,042,922	1144	2,043,826	1241	2,044,618	1008	2,045,343	1013
2,040,771	635	2,041,341	1224	2,042,178	1145	2,042,923	1372	2,043,836	873	2,044,628	1008	2,045,349	1324
2,040,787	628	2,041,343	935	2,042,204	1146	2,042,935	1231	2,043,855	801	2,044,653	631	2,045,350	1210
2,040,788	628	2,041,345	931	2,042,205	530	2,042,944	1193	2,043,859	668	2,044,665	1013	2,045,379	1150
2,040,794	1273	2,041,346	931	2,042,212	877	2,042,971	1075	2,043,897	975	2,044,671	934	2,045,392	1070
2,040,795	1328	2,041,347	931	2,042,218	877	2,042,972	1075	2,043,899	538	2,044,680	631	2,045,407	1010
2,040,801	535	2,041,348	1150	2,042,219	649	2,042,974	1108	2,043,905	845	2,044,721	1015	2,045,410	1331
2,040,804	934	2,041,364	874	2,042,221	649	2,042,979	1145	2,043,906	845	2,044,722	1015	2,045,411	1323
2,040,805	907	2,041,381	933	2,042,222	648	2,042,991	1150	2,043,912	529	2,044,723	1015	2,045,415	1236
2,040,809	621	2,041,397	1203	2,042,224	649	2,042,995	873	2,043,922	874	2,044,724	1015	2,045,465	1231
2,040,811	605	2,041,448	908	2,042,225	649	2,042,997	874	2,043,923	874	2,044,726	1015	2,045,466	1230
2,040,812	1241	2,041,453	1241	2,042,261	1231	2,042,998	874	2,043,927	799	2,044,739	1011	2,045,468	1145
2,040,816	631	2,041,473	1282	2,042,281	1150	2,042,999	874	2,043,930	778	2,044,742	931	2,045,499	1070
2,040,818	1202	2,041,485	1194	2,042,291	800	2,043,000	1255	2,043,932	524	2,044,743	931	2,045,503	1149
2,040,819	1332	2,041,495	1147	2,042,292	800	2,043,016	873	2,043,936	874	2,044,744	632	2,045,517	651
2,040,822	1147	2,041,496	1194	2,042,296	604	2,043,025	1206	2,043,938	1240	2,044,747	701	2,045,518	1148
2,040,823	909	2,041,504	908	2,042,298	873	2,043,029	1207	2,043,941	626	2,044,750	630	2,045,519	1149
2,040,825	932	2,041,525	875	2,042,299	658	2,043,038	1074	2,043,945	1157	2,044,753	909	2,045,551	1242
2,040,826	932	2,041,5											

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2,045,727	1369	2,046,537	839	2,047,320	1083	2,048,316	708	2,049,423	1160	2,051,096	1024	2,052,603	1135
2,045,739	649	2,046,548	979	2,047,323	1140	2,048,347	803	2,049,440	1021	2,051,107	995	2,052,706	992
2,045,740	1147	2,046,549	979	2,047,345	1206	2,048,351	754	2,049,441	741	2,051,119	1028	2,052,716	1026
2,045,741	1372	2,046,551	1037	2,047,354	740	2,048,362	857	2,049,447	946	2,051,120	1028	2,052,722	1023
2,045,742	1014	2,046,554	741	2,047,355	1014	2,048,371	1100	2,049,463	1134	2,051,121	1029	2,052,736	1025
2,045,743	1150	2,046,555	1330	2,047,363	1012	2,048,475	742	2,049,467	1022	2,051,122	1029	2,052,742	1273
2,045,749	651	2,046,557	1243	2,047,375	850	2,048,479	755	2,049,469	772	2,051,125	1158	2,052,743	1270
2,045,755	1196	2,046,567	979	2,047,380	1012	2,048,513	1107	2,049,470	798	2,051,145	1025	2,052,744	1024
2,045,759	1160	2,046,575	895	2,047,391	740	2,048,521	1166	2,049,472	803	2,051,149	994	2,052,745	1024
2,045,766	758	2,046,576	895	2,047,393	827	2,048,522	1162	2,049,473	740	2,051,161	1410	2,052,779	997
2,045,788	1014	2,046,577	895	2,047,394	827	2,048,545	1409	2,049,477	738	2,051,218	1022	2,052,800	1170
2,045,791	1108	2,046,583	739	2,047,396	760	2,048,546	802	2,049,480	1136	2,051,219	1037	2,052,812	1161
2,045,794	1011	2,046,614	1038	2,047,407	742	2,048,593	1375	2,049,507	947	2,051,226	1167	2,052,852	1162
2,045,795	1011	2,046,615	1190	2,047,412	1012	2,048,632	1376	2,049,522	742	2,051,255	1166	2,052,858	1171
2,045,806	1014	2,046,616	1190	2,047,424	742	2,048,640	850	2,049,561	803	2,051,266	1020	2,052,881	1024
2,045,807	1047	2,046,617	1190	2,047,426	787	2,048,644	738	2,049,562	802	2,051,300	1023	2,052,889	1021
2,045,808	1047	2,046,629	1225	2,047,457	1207	2,048,645	1333	2,049,563	978	2,051,317	1075	2,052,917	1023
2,045,818	1193	2,046,638	1225	2,047,475	1012	2,048,651	1322	2,049,565	947	2,051,395	1075	2,052,928	1070
2,045,832	1047	2,046,662	1246	2,047,466	895	2,048,656	770	2,049,576	978	2,051,404	1165	2,052,946	997
2,045,836	1089	2,046,687	738	2,047,488	895	2,048,685	1323	2,049,582	1022	2,051,462	1160	2,052,971	1161
2,045,850	1266	2,046,702	1226	2,047,499	1012	2,048,686	1373	2,049,608	876	2,051,463	1070	2,052,983	991
2,045,854	1266	2,046,720	759	2,047,526	742	2,048,718	741	2,047,614	1201	2,051,473	1023	2,052,994	995
2,045,860	1150	2,046,740	741	2,047,527	742	2,048,719	772	2,049,662	1136	2,051,505	1057	2,052,995	1134
2,045,899	1010	2,046,741	1192	2,047,530	1129	2,048,728	1382	2,049,670	1020	2,051,523	997	2,053,000	1166
2,045,906	1375	2,046,747	1376	2,047,534	758	2,048,745	899	2,049,699	638	2,051,545	992	2,053,021	994
2,045,913	1072	2,046,749	874	2,047,543	890	2,048,746	740	2,049,725	959	2,051,567	996	2,053,024	991
2,045,919	1224	2,046,750	772	2,047,545	1202	2,048,768	879	2,049,772	788	2,051,576	1048	2,053,031	1089
2,045,920	1206	2,046,753	798	2,047,546	1200	2,048,770	1163	2,049,790	740	2,051,577	1057	2,053,038	993
2,045,922	1015	2,046,756	850	2,047,549	1202	2,048,774	946	2,049,814	1158	2,051,578	1058	2,053,045	1165
2,045,925	1108	2,046,773	1038	2,047,550	1201	2,048,775	1322	2,049,817	1158	2,051,607	1095	2,053,046	1165
2,045,929	650	2,046,770	740	2,047,561	742	2,048,778	1374	2,049,832	787	2,051,727	1140	2,053,090	1076
2,045,932	1375	2,046,793	1243	2,047,562	792	2,048,779	1373	2,049,834	799	2,051,740	1149	2,053,095	1135
2,045,940	1266	2,046,811	1224	2,047,568	740	2,048,781	878	2,049,866	740	2,051,743	1158	2,053,111	1117
2,045,988	704	2,046,816	738	2,047,576	916	2,048,784	1161	2,049,881	787	2,051,744	1165	2,053,121	997
2,046,011	651	2,046,818	1203	2,047,595	741	2,048,790	878	2,049,882	787	2,051,774	991	2,053,127	990
2,046,012	1070	2,046,821	895	2,047,597	813	2,048,799	877	2,049,889	850	2,051,775	1074	2,053,129	1071
2,046,054	1089	2,046,822	1225	2,047,598	1376	2,048,807	1370	2,049,896	1020	2,051,806	1020	2,053,208	1090
2,046,056	1075	2,046,823	1242	2,047,599	839	2,048,808	1373	2,049,947	1159	2,051,807	1020	2,053,233	1172
2,046,061	1071	2,046,827	1174	2,047,614	1201	2,048,817	739	2,049,974	947	2,051,812	1021	2,053,244	1057
2,046,063	1301	2,046,829	1201	2,047,627	778	2,048,818	978	2,049,978	900	2,051,814	1163	2,053,260	1178
2,046,064	1301	2,046,830	1203	2,047,628	778	2,048,822	878	2,049,985	916	2,051,849	1379	2,053,271	1379
2,046,071	1210	2,046,841	1201	2,047,642	1083	2,048,823	878	2,050,004	839	2,051,850	1019	2,053,279	1073
2,046,081	1010	2,046,862	1046	2,047,643	741	2,048,838	876	2,050,007	740	2,051,871	1163	2,053,280	1191
2,046,088	1071	2,046,871	1239	2,047,650	900	2,048,844	884	2,050,013	1136	2,051,872	1163	2,053,281	998
2,046,090	759	2,046,875	879	2,047,656	880	2,048,854	803	2,050,025	1161	2,051,873	1163	2,053,286	1021
2,046,093	1149	2,046,876	760	2,047,663	879	2,048,871	741	2,050,029	738	2,051,877	1037	2,053,289	1243
2,046,101	1306	2,046,880	1203	2,047,664	879	2,048,877	787	2,050,075	1136	2,051,880	996	2,053,308	1020
2,046,110	1147	2,046,885	1330	2,047,669	1396	2,048,913	740	2,050,089	739	2,051,889	997	2,053,337	1164
2,046,116	843	2,046,886	1372	2,047,670	814	2,048,916	1225	2,050,112	1165	2,051,902	1162	2,053,360	1053
2,046,142	1145	2,046,900	760	2,047,674	813	2,048,917	1225	2,050,139	1165	2,051,982	1071	2,053,361	1053
2,046,145	761	2,046,902	787	2,047,755	1012	2,048,918	1225	2,050,188	1024	2,051,984	1053	2,053,421	1024
2,046,150	1173	2,046,907	1012	2,047,758	813	2,048,923	754	2,050,190	1093	2,052,003	1165	2,053,430	1171
2,046,158	1130	2,046,925	1248	2,047,759	1009	2,048,932	787	2,050,193	947	2,052,004	993	2,053,439	1171
2,046,160	1246	2,046,930	1192	2,047,765	742	2,048,956	741	2,050,195	1092	2,052,025	1236	2,053,457	1171
2,046,162	1046	2,046,937	1047	2,047,772	1226	2,048,967	787	2,050,196	1041	2,052,026	1236	2,053,460	1163
2,046,165	813	2,046,940	1190	2,047,780	1015	2,048,990	878	2,050,197	1041	2,052,027	1020	2,053,474	1020
2,046,166	1047	2,046,941	803	2,047,797	1090	2,048,992	1165	2,050,198	1092	2,052,029	1020	2,053,485	1161
2,046,181	827	2,046,944	1332	2,047,798	741	2,048,993	1159	2,050,199	1092	2,052,150	1273	2,053,497	1053
2,046,209	1014	2,046,951	1014	2,047,811	758	2,049,000	1160	2,050,203	1092	2,052,156	994	2,053,501	1076
2,046,242	1330	2,046,961	1108	2,047,814	1226	2,049,013	1161	2,050,204	935	2,052,164	1164	2,053,511	1162
2,046,243	755	2,046,971	779	2,047,819	1203	2,049,014	1166	2,050,208	1092	2,052,165	1167	2,053,512	1162
2,046,260	1202	2,046,986	816	2,047,826	1012	2,049,016	1161	2,050,209	942	2,052,193	1163	2,053,515	1243
2,046,277	1246	2,046,987	1093	2,047,839	878	2,049,017	1369	2,050,212	783	2,052,195	1019	2,053,516	1410
2,046,279	1224	2,046,995	1227	2,047,873	1228	2,049,021	1374	2,050,225	783	2,052,196	1166	2,053,525	1411
2,046,281	1342	2,047,004	1374	2,047,874	827	2,049,036	1164	2,050,231	742	2,052,206	978	2,053,527	1191
2,046,284	1203	2,047,016	787	2,047,880	819	2,049,043	1166	2,050,234	1021	2,052,210	1025	2,053,532	1277
2,046,295	1210	2,047,022	983	2,047,889	1090	2,049,046	1167	2,050,235	1021	2,052,221	978	2,053,539	1243
2,046,296	1242	2,047,029	803	2,047,910	813	2,049,050	1144	2,050,242	997	2,052,229	1053	2,053,540	1273
2,046,305	1330	2,047,032	1038	2,047,923	880	2,049,051	1164	2,050,260	1041	2,052,233	1057	2,053,552	1164
2,046,308	1144	2,047,040	1202	2,047,926	880	2,049,055	1368	2,050,345	1161	2,052,236	1047	2,053,562	1058
2,046,312	1201	2,047,058	945	2,047,946	879	2,049,059	1164	2,050,398	1140	2,052,239	1162	2,053,596	1117
2,046,317	1196	2,047,064	779	2,047,952	1323	2,049,060	1165	2,050,400	1140	2,052,254	1053	2,053,613	1083
2,046,320	952	2,047,090	780	2,047,957	948	2,049,062	1163	2,050,415	1167	2,052,264	1021	2,053,621	1410
2,046,324	701	2,047,128	1090	2,047,961	1325	2,049,071	783	2,050,423	992	2,052,268	1020	2,053,636	1140
2,046,326	983	2,047,130	1037	2,047,972	947								

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2,054,100	1177	2,055,028	1160	2,055,763	1170	2,056,668	1304	2,058,220	1266	2,059,196	1400	2,060,965	1314
2,054,107	1178	2,055,029	1160	2,055,773	1336	2,056,669	1304	2,058,236	1306	2,059,208	1290	2,061,008	1306
2,054,128	1140	2,055,043	1164	2,055,774	1414	2,056,723	1303	2,058,237	1306	2,059,208	1290	2,061,018	1310
2,054,164	1158	2,055,048	1289	2,055,781	1288	2,056,735	995	2,058,250	1171	2,059,388	1290	2,061,019	1310
2,054,166	1209	2,055,060	1118	2,055,782	1405	2,056,748	1175	2,058,342	1306	2,059,399	1266	2,061,070	1301
2,054,195	997	2,055,070	1361	2,055,795	1165	2,056,779	1274	2,058,343	1306	2,059,459	1301	2,061,111	1306
2,054,213	1405	2,055,073	1346	2,055,806	1380	2,056,789	996	2,058,344	1306	2,059,469	1302	2,061,184	1404
2,054,273	1164	2,055,120	1405	2,055,809	1337	2,056,822	1180	2,058,389	1178	2,059,535	1304	2,061,197	1303
2,054,276	1163	2,055,162	1289	2,055,810	1163	2,056,830	1172	2,058,394	1241	2,059,542	1303	2,061,201	1361
2,054,282	995	2,055,167	1396	2,055,812	1380	2,056,837	1047	2,058,406	1184	2,059,579	1318	2,061,243	1314
2,054,303	1170	2,055,181	1364	2,055,834	1348	2,056,894	1070	2,058,419	1175	2,059,599	1391	2,061,249	1317
2,054,315	996	2,055,190	1158	2,055,836	1290	2,056,904	1070	2,058,435	1178	2,059,600	1391	2,061,314	1313
2,054,316	1072	2,055,210	1165	2,055,869	1289	2,056,913	1304	2,058,437	1300	2,059,642	1275	2,061,377	1311
2,054,317	1057	2,055,216	1363	2,055,871	1289	2,056,916	1308	2,058,453	1189	2,059,647	1315	2,061,470	1310
2,054,382	1074	2,055,223	1364	2,055,872	1289	2,056,945	1272	2,058,453	1189	2,059,647	1315	2,061,519	1310
2,054,392	1405	2,055,224	1346	2,055,873	1289	2,056,972	1171	2,058,465	1309	2,059,647	1315	2,061,541	1303
2,054,416	1164	2,055,230	1405	2,055,874	1289	2,056,976	1171	2,058,466	1189	2,059,637	1303	2,061,583	1302
2,054,429	1164	2,055,232	1289	2,055,875	1305	2,056,978	1305	2,058,477	1183	2,059,638	1304	2,061,593	1314
2,054,430	1164	2,055,301	1289	2,055,915	1289	2,056,979	1305	2,058,489	1184	2,059,843	1276	2,061,597	1313
2,054,432	1241	2,055,306	1290	2,055,938	1105	2,057,020	1346	2,058,504	1176	2,059,852	1317	2,061,598	1309
2,054,433	1165	2,055,368	1159	2,055,943	1166	2,057,044	1256	2,058,510	1374	2,059,887	1277	2,061,601	1304
2,054,441	991	2,055,403	1412	2,055,950	1288	2,057,076	1170	2,058,521	1408	2,059,912	1314	2,061,617	1309
2,054,453	1170	2,055,417	1165	2,056,001	1414	2,057,113	1169	2,058,534	1302	2,060,023	1400	2,061,618	1309
2,054,463	1166	2,055,419	1200	2,056,060	1158	2,057,117	1177	2,058,547	1178	2,060,086	1312	2,061,619	1309
2,054,483	1380	2,055,423	1162	2,056,063	1159	2,057,119	1172	2,058,568	1304	2,060,105	1373	2,061,620	1309
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2,054,509	1256	2,055,437	1171	2,056,070	1287	2,057,144	1396	2,058,570	1304	2,060,110	1290	2,061,792	1305
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2,054,571	1169	2,055,475	1337	2,056,161	1273	2,057,265	1301	2,058,606	1183	2,060,154	1408	2,062,179	1325
2,054,587	994	2,055,482	1306	2,056,176	1177	2,057,268	1305	2,058,607	1183	2,060,163	1317	2,062,201	1305
2,054,599	1160	2,055,484	1290	2,056,187	997	2,057,319	1179	2,058,615	1246	2,060,143	1310	2,062,234	1405
2,054,613	1166	2,055,485	1290	2,056,190	993	2,057,352	1396	2,058,666	1318	2,060,195	1311	2,062,347	1304
2,054,638	1174	2,055,486	1301	2,056,208	1408	2,057,413	1301	2,058,690	1307	2,060,223	1255	2,062,348	1346
2,054,646	1130	2,055,491	1256	2,056,238	1255	2,057,414	1305	2,058,720	1302	2,060,264	1266	2,062,350	1299
2,054,648	994	2,055,496	1159	2,056,260	1176	2,057,424	1302	2,058,774	1307	2,060,267	1312	2,062,354	1306
2,054,658	990	2,055,503	1163	2,056,261	1176	2,057,431	1364	2,058,781	1308	2,060,281	1304	2,062,355	1306
2,054,742	1282	2,055,507	1376	2,056,360	1273	2,057,432	1302	2,058,788	1307	2,060,291	1302	2,062,356	1306
2,054,750	1164	2,055,547	1178	2,056,370	1075	2,057,433	1302	2,058,832	1255	2,060,295	1345	2,062,358	1300
2,054,774	1161	2,055,608	1175	2,056,387	1068	2,057,473	1307	2,058,844	1170	2,060,336	1266	2,062,370	1300
2,054,775	1164	2,055,609	1179	2,056,399	1073	2,057,486	1300	2,058,851	1170	2,060,425	1304	2,062,374	1301
2,054,776	1158	2,055,627	1164	2,056,426	1075	2,057,668	1184	2,058,911	1175	2,060,428	1316	2,062,375	1290
2,054,777	1164	2,055,628	1159	2,056,520	1057	2,057,862	1196	2,058,944	1303	2,060,517	1303	2,062,377	1303
2,054,780	1379	2,055,634	1026	2,056,529	1391	2,057,906	1346	2,058,947	1360	2,060,522	1412	2,062,463	1305
2,054,798	1288	2,055,666	1166	2,056,531	1301	2,057,918	1303	2,058,958	1302	2,060,623	1312	2,062,464	1363
2,054,801	1373	2,055,685	1026	2,056,581	991	2,057,923	1303	2,058,959	1337	2,060,805	1303	2,062,675	1305
2,054,807	1172	2,055,686	1026	2,056,582	993	2,058,013	1174	2,059,051	1301	2,060,815	1337	2,062,676	1306
2,054,814	1171	2,055,689	1290	2,056,583	993	2,058,081	1272	2,059,075	1302	2,060,820	1314	2,062,677	1306
2,054,885	1412	2,055,699	1029	2,056,618	1302	2,058,120	1198	2,059,125	1255	2,060,850	1313	2,062,733	1303
2,054,937	945	2,055,708	1174	2,056,630	1076	2,058,131	1303	2,059,166	1303	2,060,851	1313	2,062,872	1301
2,054,939	1360	2,055,720	1170	2,056,637	1053	2,058,180	1272	2,059,192	1306	2,060,871	1309	2,062,933	1307
2,054,966	1414	2,055,727	1178	2,056,662	1075	2,058,200	1255	2,059,195	1408	2,060,880	1311	2,062,934	1307
2,055,027	1161	2,055,755	1158	2,056,663	1140								

# ERRATA.

## ABSTRACTS A., 1935 (PURE CHEMISTRY).

Page 1136 Col. 1 Line. 18\* For " $C_8H_{12}N_2$ " read " $C_9H_{12}N_2$ ."

1936.

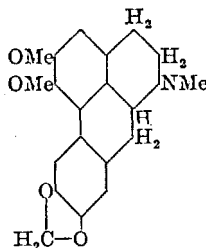
1447 1 33 For "moments" read "liquids."  
1511 1 25\* For "CHIGI" read "GHIGI."

1937, I.

25 2 6 For "KOMAROV" read "KOLAROV."  
34 2 14 and 16 For "A. WILLIAMS" read "G. WILLIAMS."  
52 2 24 For "vandenbrandite" read "vandenbrandcite."  
52 2 25 For "casolito" read "kasolite."  
54 2 bottom For "R. RAETHER" read "H. RAETHER."  
171 2 22 For "granite" read "garnet."  
204 1 4 For "chemically" read "spectroscopically."  
204 1 6\* For "n" read " $n_a$ ."  
205 1 11\* For "Tonopah" read "Tonopah."  
205 2 20 For "lazial zono" read "Latium region."  
259 2 1 For "HIBERT" read "HIBBERT."  
276 2 15 For "nulei" read "nuclei."  
285 1 5\* For " $Ac_2$ " read "dicetyl."  
298 1 27 For "Au" read "Cu."  
323 2 12 For "SACHERL" read "SCHACHERL."  
328 1 25\* For "Hg" read "Ag."  
410 1 26 For "S. R. JOSHI" read "S. S. JOSHI."  
420 2 16 For " $CuCl_4$ " read " $CCl_4$ ."  
423 2 27, 28, and 35 For "Rh" read "Re."  
432 1 35 For " $C_2$ " read " $C2/c$ ."  
446 2 12 For "RENNIGER" read "RENNINGER."  
512 2 6\* For "C. S. ADAIR" read "G. S. ADAIR."  
584 2 15 For "de Chatelier" read "Le Chatelier."  
598 1 16\* For "NEILSEN" read "NIELSEN."  
630 1 13\* For "SHEARD" read "SHEAD."

1937, II.

4 2 22\* For " $\beta\beta$ -dimethylpentane- $\beta\delta\epsilon$ -tricarboxylic acid" read " $\beta\delta\epsilon$ -dimethylpentane- $\beta\delta\epsilon$ -tricarboxylic acid."  
12 1 bottom For "BERKENGEIM" read "BERKENHEIM."  
29 1 26 For "RATIKIN" read "RAKITIN."  
33 2 26 For "acridone" read "acridine."  
33 2 Last abstract. For "9-" in each case read "5-."  
40 1 31 For "2:4:1-( $NO_2$ ) $_2$ C $_6$ H $_5$ ScCN" read "2:4:1-( $NO_2$ ) $_2$ C $_6$ H $_5$ ScCN."  
38 1 First abstract. The numberings should be altered as follows: 1:1' to 2:2'; 6:7:6':7' to 3:4:3':4'; 8:12 to 7:11; 10 to 9. Also, for (N = 1; S = 3) read (numbering as in benzthiazole; N = 2).  
38 2 12 For "764, 872" read "742."  
48 2 4 For "which" read "and."  
58 2 2 For "INOTO" read "IMOTO."  
119 2 23 For "E. A. GILLAM" read "A. E. GILLAM."  
127 2 The formula at the top (*dl*-epidicentrine) should be:



146 2 15 For "ALARD" read "ALLARD."  
127 1 9\* For "SNISHIDO" read "SHISHIDO."  
180 1 In the abstract on scorhamic acid, the last two lines should read "reduces I and cold  $AgNO_3$  and is antiscorbutically inactive."  
200 2 11 For "Optically acids" read "Optically active acids."  
219 2 28 For "Sinomenium" read "Sinomenium."  
356 1 4-5 For "2:4-dinitrobenzoyl" read "3:5-dinitrobenzoyl."  
383 2 6 For "V. FROTSCHI" read "U. FRITSCHI."

\* From bottom.

Page.	Col.	Line.	
389	1	12*	For "H. V. HEERAMANECK" read "V. R. HEERAMANECK."
396	1	29	For " $\text{Re}_2(\text{CO}_3)_2$ " read " $\text{ReCl}_3$ ."
416	2	10	For "Lanasterol" read "Lanosterol."
442	1	8 and 9	For "hydroxy-3:4-diamino-5-1-tetronylethylene glycol," and in the formula replace " $\text{CH}(\text{OH})\text{CO}_2\text{H}$ " by " $\text{CH}(\text{OH})\text{CH}_2\text{OH}$ ."
461	1	21*	For "F. C. McQUILLIN" read "F. J. McQUILLIN."

## 1937, III.

12	1	20	For "KIEGEL" read "RIEGEL."
41	2	10	For "K. R. KANITZ" read "H. R. KANITZ."
43	1	17*	For "WIDMAN" read "WIDMANN."
53	2	5	For "0.5" read "0.05."
66	1	18*	For "SCHLENK" read "SCHENCK."
72	1	19	For "KREUGER" read "KRUEGER."
88	1	10*	For "BALTECEANO" read "BALTACEANO."
92	1	5*	For "N. J. DEUEL" read "H. J. DEUEL."
98	2	17*	For "S. NAKAZAWA" read "R. NAKAZAWA."
107	2	26	For "WATANAKE" read "WATANABE."
122	1	14	For "anhydride" read "hydrazide."
122	1	15	For "benzyl ester" read "benzilate."
135	2	3	For "J. JOURDAN" read "F. JOURDAN."
187	2	41—42	For "D. GREAVES" read "J. D. GREAVES."
268	1	34—35	For "dehydrocozymase" read "dihydrocozymase."
268	2	8	For "MARTINS" read "MARTIUS."
270	1	33	For "GABRIELLI" read "GABBRIELLI."
285	1	15	For "rythm" read "rhythm."
288	1	1 and 2	For "Jugulans" read "Juglans."
337	2	21	For "ZUCKERANDL" read "ZUCKERKANDL."
339	1	4	For "J. ZUCKERANDL" read "F. ZUCKERKANDL."
400	2	21	For "actually" read "usually."
403	2	20	After "Aq." insert "and."
418	1	28	For "LACOLIO" read "LOCALIO."
437	1	13	For "BERGMANN" read "BERGMAN."
437	1	27*	For "LEBOND" read "LEBLOND."
465	2	22*	For "JOHNSON" read "JOHNSTON."

## ABSTRACTS B., 1936 (APPLIED CHEMISTRY).

1028	2	18	For "dioxide" read "monoxide."
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## 1937.

5	1	2*	For "WISON" read "WILSON."
64	2	30*	For "life" read "like."
106	2	12*	For "RAPAPORT" read "RAPOPORT."
177	2	25	For "SCHULZ" read "SCHULTZ."
178	2	26*	For "PELSHENSKE" read "PELSHENKE."
212	1	28*	For "thiophylline" read "theophylline."
256	1	24*	For "F. MEINEL" read "K. MEINEL."
282	1	28*	For "KRONER" read "KRÖNER."
371	2	7	For "N. P. MOJEN" read "H. P. MOJEN."
388	1	21	For "ASTAL" read "ASTAD."
414	2	25	For "butadeine" read "butadiene."
543	1	28	For "MORSE" read "MOOSE."
550	1	9 and 34	For "LYNAM" read "LYMAN."
560	1	31	For "SIEGLE" read "SEIGLE."
584	1	13* and 17*	For " $\text{C}_6\text{H}_6$ " read "light petroleum."
658	2	3*	For "MULLER" read "MÜLLER."
782	2	8	For "frunaces" read "furnaces."
858	1	17*	For "frabricating" read "fabricating."
902	1	23	For "G. V. KAGAN" read "G. B. KAGAN."
1024	1	16*	For 1,933, read 1,993,345.
1073	1	17*	For "KIRCHSTEIN" read "KIRSCHSTEIN."
1090	2	23*	For "H. H. SMALLWOOD" read "H. M. SMALLWOOD."
1143	2	19	For "BREITLANG" read "BREITLING."
1320	1	6*	For "PETITGRAS" read "PETITTAS."
1370	1	8	For "MAYER" read "MEYER."

\* From bottom.

